

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** SILIKAL Additiv ZA
- **Article number:** M0080
- **Application of the substance / the preparation:**
Accelerator
Additional component
- **Manufacturer/Supplier:**
Silikal GmbH & Co. KG
Ostring 23
D-63533 Mainhausen
Tel.: +49-6182/9235-0
Fax.: +49-6182/9235-40
e-mail: mail@silikal.de
- **Further information obtainable from:** Environmental department

2 Composition/information on ingredients

- **CAS No. Description**
99-97-8 N,N-dimethyl-p-toluidine
- **Identification number(s)**
- **EINECS Number:** 202-805-4
- **EU Number:** 612-056-00-9

3 Hazards identification

- **Hazard description:**



T Toxic

- **Information concerning particular hazards for human and environment:**
R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R 33 Danger of cumulative effects.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4 First-aid measures

- **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing equipment only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Wash with polyethylene glycol and ethanol (2:1). Then wash thoroughly with water and soap.
Cover wound with a sterile dressing.
Seek medical treatment.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.

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- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
During heating or in case of fire poisonous gases are produced.
Nitrogen oxides (NO_x)
- **Protective equipment:**
Wear self-contained respiratory protective device.
Filter AX
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:** Mount respiratory protective device.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Provide solvent resistant, sealed floor.
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in a cool place.
- **Maximum storage temperature:** 25°C
- **Storage class:** 6.1

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX

- **Protection of hands:**



Protective gloves

- **Material of gloves** PVC or PE gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

Form:	Fluid
Colour:	Dark yellow
Odour:	Amine-like

- **Change in condition**

Melting point/Melting range:	-25°C
Boiling point/Boiling range:	215°C

- **Flash point:** 83°C

- **Ignition temperature:** 425°C

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower:	1.2 Vol %
Upper:	7 Vol %

- **Density at 20°C:** 0.94 g/cm³

- **Solubility in / Miscibility with**

water at 20°C:	< 1 g/l
Organic solvents:	0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Materials to be avoided:** Reacts with alkali, amines and strong acids.

- **Dangerous reactions:**

Reacts with peroxides.

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Strong exothermic reaction with acids.

· **Dangerous decomposition products:**

Hydrocarbons

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

· **Additional information:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

99-97-8 N,N-dimethyl-p-toluidine

Oral	LC50	1650 mg/l (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50 (4h)	1.5 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

12 Ecological information

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

99-97-8 N,N-dimethyl-p-toluidine

LC0 (96h)	100 mg/l (fish)
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· **Remark:** Harmful to fish

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

· **European waste catalogue**

07 02 04	other organic solvents, washing liquids and mother liquors
15 01 04	metallic packaging

· **Uncleaned packaging:**

· **Recommendation:**

Packaging may be reused or recycled after cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Disposal must be made according to official regulations.

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· Recommended cleansing agents: Acetone, ethylacetate

14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID class: 6.1 Toxic substances.
- Danger code (Kemler): 60
- UN-Number: 2810
- Packaging group: II
- Hazard label: 6.1
- Description of goods: 2810 TOXIC LIQUID, ORGANIC, N.O.S. (N,N-dimethyl-p-toluidine)

· Maritime transport IMDG:



- IMDG Class: 6.1
- UN Number: 2810
- Label: 6.1
- Packaging group: II
- EMS Number: F-A,S-A
- Marine pollutant: No
- Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (N,N-dimethyl-p-toluidine)

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 6.1
- UN/ID Number: 2810
- Label: 6.1
- Packaging group: II
- Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (N,N-dimethyl-p-toluidine)

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

T Toxic

· Risk phrases:

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

33 Danger of cumulative effects.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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· Safety phrases:

28 After contact with skin, wash immediately with plenty of polyethylene-glycol 400, and then cleanse with soap and water.

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· National regulations:**· Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Environmental Department**· * Data compared to the previous version altered.**

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