



Boden gut, alles gut!
Expect more from your floor.

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 08/18/2010

Reviewed on 08/18/2010

1 Identification of substance

- **Product details**
- **Trade name: ADDITIVE ZA**
- **Application of the substance / the preparation:**
Accelerator
Additional component
- **Manufacturer/Supplier:**
Silikal America
609-B Fertilla Street
Carrolton, GA 30117
Tel.: 770.830.1404
Fax.: 777.830.9213
info@silikalamerica.com
- **Information department:** Silikal America
- **Emergency information:** INFOTRAC 1-800-535-5053

2 Composition/Data on components

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

3 Hazards identification

- **Hazard description:**



T Toxic

- **Information pertaining to particular dangers for man 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.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 2
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 3 Health = 3
FIRE 2 Fire = 2
REACTIVITY 0 Reactivity = 0

4 First aid measures

- **General information:**
Immediately remove any clothing soiled by the product.

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Remove breathing apparatus 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.

· **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

5 Fire fighting measures

· **Suitable extinguishing agents:**

CO₂, extinguishing 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 material, 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, sawdust).

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 protection against explosions and fires:**

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 receptacle tightly sealed.

Store in a cool place.

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· **Maximum storage temperature:** 25°C

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Components with limit values that require monitoring at the workplace:**

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

WEEL | 0.5 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 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.

· **Breathing equipment:**

Workplace must be properly ventilated and monitored to maintain air quality below the TLV.
 Organic vapour respirators are required only when levels meet or exceed these values. A self contained breathing apparatus is required in confined spaces.
 Filter AX or Organic Vapour Cartridge.

· **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
Color:	Dark yellow
Odor:	Amine-like

· **Change in condition**

Melting point/Melting range: -25°C (-13°F)
Boiling point/Boiling range: 215°C (419°F)

· **Flash point:** 83°C (181°F)· **Ignition temperature:** 425°C (797°F)· **Danger of explosion:** Product does not present an explosion hazard.

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- | | |
|---|-----------|
| · Explosion limits: | |
| Lower: | 1.2 Vol % |
| Upper: | 7 Vol % |
| · Density at 20°C (68°F): 0.94 g/cm ³ (7.844 lbs/gal) | |
| · Solubility in / Miscibility with | |
| Water at 20°C (68°F): | < 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.
Strong exothermic reaction with acids.
- **Dangerous products of decomposition:**
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 that are 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
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (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.
The material is harmful to the environment.

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Harmful to aquatic organisms

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13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:**
Packaging can be reused or recycled after cleaning.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Acetone, ethylacetate

14 Transport information

- **DOT regulations:**
- **Hazard class:** 6.1
- **Identification number:** UN2810
- **Proper shipping name (technical name):** TOXIC LIQUID, ORGANIC, N.O.S. (N,N-dimethyl-p-toluidine)

- **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 6.1 Toxic substances
- **Danger code (Kemler):** 60
- **UN-Number:** 2810
- **Packaging group:** II
- **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
- **Propper shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (N,N-dimethyl-p-toluidine)

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· 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 Regulations

· Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenicity categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· MAK (German Maximum Workplace Concentration)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

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· AGW (German Workplace Threshold Value)

Substance is not listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:

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.

· 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:

· **Water hazard 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:** Silikal America

· * **Data compared to the previous version altered.**

USA