

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.04.2016


Version number 14

Revision: 28.04.2016


**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name: AG 70**
- **Article number: 205731**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Primer/ Subcoating
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SCHOMBURG GmbH & Co. KG  
Aquafinstr. 2-8  
D-32760 Detmold  
Germany  
-----  
Tel: ++49 (0)5231/953-00  
Fax: ++49 (0)5231/953-123  
email: info@schomburg.de  
web: www.schomburg.de
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Product Safety Department  
  
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**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
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GHS02 flame

Flam. Liq. 2      H225    Highly flammable liquid and vapour.
- 


GHS08 health hazard

Repr. 2              H361d Suspected of damaging the unborn child.  
Asp. Tox. 1        H304    May be fatal if swallowed and enters airways.
- 

GHS05 corrosion

Eye Dam. 1        H318    Causes serious eye damage.
- 

GHS09 environment

Aquatic Chronic 2 H411    Toxic to aquatic life with long lasting effects.
- 

GHS07

Skin Irrit. 2        H315    Causes skin irritation.

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STOT SE 3      H336 May cause drowsiness or dizziness.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

• **Hazard pictograms** GHS02, GHS05, GHS07, GHS08, GHS09• **Signal word** Danger**Hazard-determining components of labelling:**

Isoalkane C7-C10

toluene

Butyltitanat(IV)

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment**• **PBT:** Not applicable.• **vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures**• **Description:** Solvent mixture with additives.**Dangerous components:**

CAS: 90622-56-3	Isoalkane C7-C10	50-100%
	☠ Flam. Liq. 1, H224; ☠ Asp. Tox. 1, H304; ☠ Aquatic Chronic 2, H411; ☠ Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 5593-70-4	Butyltitanat(IV)	2,5-10%
EINECS: 227-006-8	☠ Flam. Liq. 3, H226; ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 108-88-3	toluene	2,5-10%
EINECS: 203-625-9	☠ Flam. Liq. 2, H225; ☠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ☠ Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 78-10-4	tetraethyl orthosilicate	< 2,5%
EINECS: 201-083-8	☠ Flam. Liq. 3, H226; ☠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	

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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information**  
Personal protection for the First Aider.  
It is possible to choke in case of vomiting in unconsciousness.  
Bring unconscious persons into a stable position on side.  
Keep the respiratory tract free (remove dentures and vomiting).  
Check the pulse. In case of heart failure you have to make a cardiac massage. In case of stoppage of breathing: artificial respiration.  
Take up a doctor immediately!
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Drink copious amounts of water. Avert vomiting. Instantly call for doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Avoid eye- and skin contact.
- **6.2 Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding, inflammable material (sand, diatomite, acid binders, universal binder).  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Keep away from heat and direct sunlight.  
Handle with care. Avoid jolting, friction and impact.  
Do not keep food in the area of work.  
Do not store open containers.  
Do not smoke.  
Keep away from children.  
Work with fresh air supply, keep doors and windows open.  
Prevent formation of aerosols.

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- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:**  
Please follow the rules of the VCI-Storage-Concept for chemicals.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**  
It must be possible to wash the skin in the working area.  
Eye-wash bottle must be available.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** \_\_\_\_\_
- 108-88-3 toluene (2.5-10%)**  
WEL Short-term value: 384 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 191 mg/m<sup>3</sup>, 50 ppm  
Sk
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to in handling the chemicals.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.  
Be sure to clean skin thoroughly after work and before breaks.  
Do not carry cleaning cloths impregnated with the product in trouser pockets.
- **Breathing equipment:**  
In not so good ventilated space the filter combination A2B2E2K1HgP3RD is to be used.
- **Protection of hands:** Hand Protection: Nitril-rubber-latex-gloves.
- **Material of gloves**  
Butyl rubber II R: Thickness ≥ 0,5mm; Break through time ≥ 480 min
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Light yellow
<b>Smell:</b>	Weak, characteristic

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· <b>pH-value at 20 °C:</b>	7
· <b>Change in condition</b> <b>Melting point/Melting range:</b> Not determined <b>Boiling point/Boiling range:</b> 116 °C	
· <b>Flash point:</b>	3 °C
· <b>Ignition temperature:</b>	370 °C
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· <b>Critical values for explosion:</b> <b>Lower:</b> <b>Upper:</b>	0.9 % (V) 7 % (V)
· <b>Density at 20 °C</b>	0,76 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with</b> <b>Water:</b>	Not miscible or difficult to mix
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**

#### 90622-56-3 Isoalkane C7-C10

Oral LD50 >10000 mg/kg (rats)  
Dermal LD50 >3000 mg/kg (rats)  
Inhalative LC50/4 h 21 mg/l (rats)

#### 108-88-3 toluene

Oral LD50 5000 mg/kg (rats)  
Dermal LD50 12300 mg/kg (rabbit)  
Inhalative LC50/4 h 19 mg/l (rats)  
LC50 (8h) 5320 ppm (Maus)

#### 78-10-4 tetraethyl orthosilicate

Oral LD50 6270 mg/kg (rats)  
Dermal LD50 5878 mg/kg (rabbit)  
Inhalative LCLo 1000 ppm/4h (rats)

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- **Primary irritant effect:**
- **Skin corrosion/irritation**  
It is possible to irritate the skin.  
Causes skin irritation.
- **Serious eye damage/irritation**  
Light irritate-effect is possible.  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging the unborn child.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**  

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**108-88-3 toluene**  
LC50/96h 1-10 mg/l (fish toxicity)
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**  

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**108-88-3 toluene**  
EC 50 6mg/l/48h mg/l (Daphnia magna)
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**  

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07 00 00 Wastes from organic chemical processes  
07 01 00 waste from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals  
07 01 04 other organic solvents, washing liquids and mother liquors
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN1993
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	1993 FLAMMABLE LIQUID, N.O.S. (Isoalkane C7-C10, TOLUENE), ENVIRONMENTALLY HAZARDOUS, special provision 640D FLAMMABLE LIQUID, N.O.S. (Isoalkane C7-C10, TOLUENE)
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	 
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	II
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	No Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> </ul>	Warning: Flammable liquids. 33 F-E, <u>S</u> -E
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	Not dangerous according to the above specifications.
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	1L 2 D/E
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN1993, FLAMMABLE LIQUID, N.O.S. (Isoalkane C7-C10, TOLUENE), special provision 640D, ENVIRONMENTALLY HAZARDOUS, 3, II

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### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Technical instructions (air):**
- **Class Share in %**
- **II 4.9**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H224 Extremely flammable liquid and vapour.
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H304 May be fatal if swallowed and enters airways.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H361d Suspected of damaging the unborn child.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H411 Toxic to aquatic life with long lasting effects.
- **Department issuing data specification sheet:** Environment protection department.
- **Contact:** Mr. Guido Herfort
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 1: Flammable liquids, Hazard Category 1
  - Flam. Liq. 2: Flammable liquids, Hazard Category 2
  - Flam. Liq. 3: Flammable liquids, Hazard Category 3
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
  - Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
  - Repr. 2: Reproductive toxicity, Hazard Category 2
  - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
  - STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
  - Asp. Tox. 1: Aspiration hazard, Hazard Category 1
  - Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
- **\* Data compared to the previous version altered.**