

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.06.2019

Version number 6

Revision: 24.06.2019

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

1.1 Product identifier

Trade name: **Primer AP 20**

Article number: 45023, 45024

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

Priming

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



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
- Hazard pictograms

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



GHS02 GHS05 GHS07 GHS08 GHS09

• Signal word

Danger

• Hazard-determining components of labelling:

Alkanes, C7-10
tetra-n-butoxytitanium
toluene

• 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

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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• Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

- Description: Mixture of substances listed below with nonhazardous additions.

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· <u>Dangerous components:</u>		
	Alkanes, C7-10 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
CAS: 5593-70-4 EINECS: 227-006-8 Reg.nr.: 01-2119967423-33	tetra-n-butoxytitanium Flam. Liq. 3, H226 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335-H336	<10%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 Reg.nr.: 01-2119471310-51	toluene Flam. Liq. 2, H225 Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336	1-5%
CAS: 78-10-4 EINECS: 201-083-8 Index number: 014-005-00-0 Reg.nr.: 01-2119496195-28	tetraethyl silicate Flam. Liq. 3, H226 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	1-5%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

aromatic hydrocarbons	<5%
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· Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****· 4.1 Description of first aid measures**

- General information: Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.

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

Breathing difficulty
 Nausea
 Dizziness
 Dizziness
 Headache

- Information for doctor: Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)
 a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.
 b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.
 Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously.

· Hazards**· 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- Suitable extinguishing agents: Alcohol resistant foam
- For safety reasons unsuitable extinguishing agents: Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Keep contaminated washing water and dispose of appropriately.
Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Keep away from heat and direct sunlight.
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection: Fumes can combine with air to form an explosive mixture.
Use explosion-proof apparatus / fittings and spark-proof tools.
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 receptacles: Prevent any seepage into the ground.
Store in a cool location.
- Information about storage in one common storage facility: Store away from water.
- Further information about storage conditions: Protect from humidity and water.

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- **7.3 Specific end use(s)**
- Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

108-88-3 toluene

WEL	Short-term value: 384 mg/m ³ , 100 ppm
	Long-term value: 191 mg/m ³ , 50 ppm
Sk	

78-10-4 tetraethyl silicate

WEL	Long-term value: 44 mg/m ³ , 5 ppm
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· DNELs

Alkanes, C7-10

Oral	DNEL (Langzeit-wiederholt)	699 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	773 mg/kg bw/day (ARB)
		699 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	2,035 mg/m ³ Air (ARB)
		608 mg/m ³ Air (BEV)

5593-70-4 tetra-n-butoxytitanium

Oral	DNEL (Langzeit-wiederholt)	3.75 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	37.5 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	127 mg/m ³ Air (ARB)
		152 mg/m ³ Air (BEV)

108-88-3 toluene

Oral	DNEL (Langzeit-wiederholt)	8.13 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	384 mg/kg bw/day (ARB)
		226 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	384 mg/m ³ Air (ARB)
		226 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	192 mg/m ³ Air (ARB)
		56.5 mg/m ³ Air (BEV)

78-10-4 tetraethyl silicate

Dermal	DNEL (Kurzzeit-akut)	12.1 mg/kg bw/day (ARB)
		8.4 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	12.1 mg/kg bw/day (ARB)
		8.4 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	85 mg/m ³ Air (ARB)
		25 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	85 mg/m ³ Air (ARB)
		25 mg/m ³ Air (BEV)

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· **PNECs****5593-70-4 tetra-n-butoxytitanium**

PNEC (wässrig)	65 mg/l (KA) 0.008 mg/l (MW) 0.08 mg/l (SW) 2.25 mg/l (WAS)
PNEC (fest)	0.017 mg/kg Trockengew (BO) 0.007 mg/kg Trockengew (MWS) 0.069 mg/kg Trockengew (SWS)

108-88-3 toluene

PNEC (wässrig)	13.61 mg/l (KA) 0.68 mg/l (MW) 0.68 mg/l (SW) 0.68 mg/l (WAS)
PNEC (fest)	2.89 mg/kg Trockengew (BO) 16.39 mg/kg Trockengew (MWS) 16.39 mg/kg Trockengew (SWS)

78-10-4 tetraethyl silicate

PNEC (wässrig)	4,000 mg/l (KA) 0.0192 mg/l (MW) 0.192 mg/l (SW) 10 mg/l (WAS)
PNEC (fest)	0.05 mg/kg Trockengew (BO) 0.018 mg/kg Trockengew (MWS) 0.18 mg/kg Trockengew (SWS)

· **Additional information:**

The lists valid during the making were used as basis.

· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
Clean skin thoroughly immediately after handling the product.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

· **Respiratory protection:**

Suitable respiratory protective device recommended.
Short term filter device:
Filter AX

· **Protection of hands:**

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.
Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material

Value for the permeation: Level ≤ 2 , 60 min

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

• Not suitable are gloves made of the following materials:

Strong material gloves

Leather gloves

• Eye protection:



Tightly sealed goggles

• Body protection:

Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• General Information

• Appearance:

Form:

Fluid

Colour:

Yellowish

• Odour:

Specific type

• pH-value at 20 °C:

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• Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: 116 °C

• Flash point:

9 °C

• Ignition temperature:

>230 °C

• Auto-ignition temperature:

Product is not selfigniting.

• Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

• Explosion limits:

Lower:

0.6 Vol %

Upper:

6.5 Vol %

• Vapour pressure at 20 °C:

8 hPa

• Density at 20 °C:

0.76 g/cm³

• Solubility in / Miscibility with water:

Not miscible or difficult to mix.

• Viscosity:

Dynamic:

Not determined.

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Kinematic at 20 °C:	1 mm ² /s
· Solvent content:	
Organic solvents:	84.5 %
Solids content:	4.0 %
· 9.2 Other information	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 relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 115-126 mg/l (rat)

Alkanes, C7-10

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4h	>21 mg/m ³ (rat)

5593-70-4 tetra-n-butoxytitanium

Oral	LD50	3,122 mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (rat)

108-88-3 toluene

Oral	LD50	5,580 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mus) 25.7-30 mg/l (rat)

78-10-4 tetraethyl silicate

Oral	LD50	>2,500 mg/kg (rat)
	NOAEL	≥100 mg/kg (rat)
Inhalative	LC50/4 h	10-16.8 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation 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.

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- STOT-repeated exposure
- Aspiration hazard

Based on available data, the classification criteria are not met.
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information**· 12.1 Toxicity**

- Aquatic toxicity:

Alkanes, C7-10

EL50/48h	2.4 mg/l (daphnia magna)
EL50/72h	29 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	18.4 mg/l (Oncorhynchus mykiss)
NOELR/72h	6.3 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	0.17 mg/l (daphnia magna)
LC50/96h	124 mg/l (pimephales promelas)

108-88-3 toluene

EC50/24h	84 mg/l (BES)
EC50/96h	>433 mg/l (Pseudokirchneriella subcapitata)
IC50/72h	12 mg/l (Pseudokirchneriella subcapitata) (lit.) 12 mg/l (Selenastrum capricornutum) (lit.)
EC50/48h	5.46-11.5 mg/l (daphnia magna) (lit.)
NOEC	0.74 mg/kg (daphnia magna)
EC50/48h	3.78 mg/l (daphnia magna)
EC50/72h	10 mg/l (green alge) 12.5 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	5.5 mg/l (piscis) 11-15 mg/l (lem) 5.8-17 mg/l (Oncorhynchus mykiss) (lit.) 54 mg/l (Oryzias latipes) 12.6-19.05 mg/l (pimephales promelas) 7-28.2 mg/l (poecilia reticulata)

78-10-4 tetraethyl silicate

EC50	>100 mg/l (Klärschlamm: Atmungs-/Vermehrungshemmung)
EC50/48h	>75 mg/l (daphnia magna)
EC50/72h	>100 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>245 mg/l (Danio rerio.)

· 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:**· Remark:**

Toxic for fish

· Additional ecological information:**· General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

· 12.5 Results of PBT and vPvB assessment**· PBT:**

Not applicable.

· vPvB:

Not applicable.

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· **12.6 Other adverse effects** No further relevant information available.

* SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

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

· European waste catalogue

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
----------	--

16 01 00	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
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16 01 99	wastes not otherwise specified
----------	--------------------------------

· Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

* SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA UN1993

· 14.2 UN proper shipping name

· ADR 1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (TOLUENE, Alkanes, C7-10), ENVIRONMENTALLY HAZARDOUS

· IMDG FLAMMABLE LIQUID, N.O.S. (TOLUENE, Alkanes, C7-10), MARINE POLLUTANT

· IATA FLAMMABLE LIQUID, N.O.S. (TOLUENE, Alkanes, C7-10)

· 14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.

· Label 3

· IMDG



· Class 3 Flammable liquids.

· Label 3

· IATA



· Class 3 Flammable liquids.

· Label 3

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<ul style="list-style-type: none"> • 14.4 Packing group • ADR, IMDG, IATA 	II
<ul style="list-style-type: none"> • 14.5 Environmental hazards: • Marine pollutant: • Special marking (ADR): 	Product contains environmentally hazardous substances: Yes Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> • 14.6 Special precautions for user • Danger code (Kemler): • EMS Number: • Stowage Category 	Warning: Flammable liquids. 33 F-E, S-E B
<ul style="list-style-type: none"> • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> • Transport/Additional information: 	
<ul style="list-style-type: none"> • ADR • Limited quantities (LQ) • Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> • Transport category • Tunnel restriction code 	2 D/E
<ul style="list-style-type: none"> • IMDG • Limited quantities (LQ) • Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> • UN "Model Regulation": 	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (TOLUENE, ALKANES, C7-10), 3, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I
 - None of the ingredients is listed.
- Seveso category
 - E2 Hazardous to the Aquatic Environment
 - P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements
 - 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements
 - 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII
 - Conditions of restriction: 3, 48
- National regulations:
- Waterhazard class:
 - Water hazard class 2 (Self-assessment): hazardous for water.
- VOC EU
 - 638.8 g/l

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· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

* **SECTION 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.

· Relevant phrases

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 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.
 refer to Technical Data Sheet (TDS)

· Recommended restriction of use

· Department issuing SDS:

Laboratory

· Contact:

Dieter Zimmermann
 Elke Hake
 Fon ++49 (0)911 64296-59
 @mail E.Hake@akemi.de

· 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)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC