

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.08.2025

Version number 10 (replaces version 9)

Revision: 18.08.2025

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

#### 1.1 Product identifier

Trade name: **Release Agent**

Article number: 62081

UFI: TCS4-S0G1-K00G-VJEM

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product category: PC15 Non-metal-surface treatment products

Application of the substance / the mixture: Cleaning agent/ Cleaner  
Maintenance product

#### 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.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1 H317 May cause an allergic skin reaction.

#### 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.



GHS07

Signal word

Warning

Hazard-determining components of labelling:

2-methyl-2H-isothiazol-3-one  
isoeugenol

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains biocidal products: 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one

#### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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· Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

### SECTION 3: Composition/information on ingredients

#### · **3.2 Mixtures**

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

· Dangerous components:

	anionic surfactants Aquatic Acute 1, H400 Acute Tox. 4, H302; Eye Irrit. 2, H319 Aquatic Chronic 3, H412	<1%
CAS: 64-19-7 EINECS: 200-580-7 Index number: 607-002-00-6	acetic acid Flam. Liq. 3, H226 Skin Corr. 1A, H314 Acute Tox. 4, H312; Acute Tox. 4, H332 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 90 \%$ Skin Corr. 1B; H314: $25 \% \leq C < 90 \%$ Skin Irrit. 2; H315: $10 \% \leq C < 25 \%$ Eye Irrit. 2; H319: $10 \% \leq C < 25 \%$	<1%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9 Reg.nr.: 01-2120764690-50	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Skin Sens. 1A, H317 EUH071 Specific concentration limit: Skin Sens. 1A; H317: $C \geq 0.0015 \%$	<1%

· 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: Immediately remove any clothing soiled by the product.  
Take affected persons out into the fresh air.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: Generally the product does not irritate the skin.  
If skin irritation continues, consult a doctor.

· After eye contact: Rinse opened eye for several minutes under running water.

· After swallowing: If symptoms persist consult doctor.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.

#### · **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**

If swallowed, gastric irrigation with added, activated carbon.

### SECTION 5: Firefighting measures

#### · **5.1 Extinguishing media**

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

#### · **5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

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· **5.3 Advice for firefighters**· Protective equipment: No special measures required.**SECTION 6: Accidental release measures**· **6.1 Personal precautions, protective equipment and emergency procedures**

Not required.

· **6.2 Environmental precautions:**

Dilute with plenty of water.

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).

· **6.4 Reference to other sections**

No dangerous substances are released.

**SECTION 7: Handling and storage**· **7.1 Precautions for safe handling**

No special measures required.

· Information about fire - and explosion protection:

No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**· Storage:· Requirements to be met by storerooms and receptacles:

No special requirements.

· Information about storage in one common storage facility:

Not required.

· Further information about storage conditions:

Protect from frost.

· Storage class:

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· **7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**· **8.1 Control parameters**· Ingredients with limit values that require monitoring at the workplace:**64-19-7 acetic acid**IOELV Short-term value: 50 mg/m<sup>3</sup>, 20 ppmLong-term value: 25 mg/m<sup>3</sup>, 10 ppm· Additional information: The lists valid during the making were used as basis.· **8.2 Exposure controls**· Appropriate engineering controls No further data; see section 7.· Individual protection measures, such as personal protective equipment· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing

Avoid close or long term contact with the skin.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

· Respiratory protection:

Not required.

· Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.

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After use of gloves apply skin-cleaning agents and skin cosmetics.  
Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).



#### Protective gloves

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

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

#### · Material of gloves

Butyl rubber, BR

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.

#### · 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.

Value for the permeation: Level  $\leq$  6, 480 min

#### · For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

#### · As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

Neoprene gloves

Nitopren (KCL, Art\_No. 717)

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art\_No. 890)

#### · Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

#### · Eye/face protection

Goggles recommended during refilling

#### · Body protection:

Protective work clothing

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**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties**

· <u>General Information</u>	
· <u>Colour:</u>	Whitish
· <u>Odour:</u>	Mild
· <u>Melting point/freezing point:</u>	Undetermined.
· <u>Boiling point or initial boiling point and boiling range</u>	100 °C
· <u>Flash point:</u>	Not applicable.
· <u>Auto-ignition temperature:</u>	300 °C
· <u>pH at 20 °C</u>	6
· <u>Viscosity:</u>	
· <u>Kinematic viscosity at 20 °C</u>	11 s (DIN 53211/4)
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Fully miscible.
· <u>Vapour pressure at 20 °C:</u>	23 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.01 g/cm <sup>3</sup>

**· 9.2 Other information**

· <u>Appearance:</u>	
· <u>Form:</u>	Fluid
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Solvent content:</u>	
· <u>Organic solvents:</u>	0.2 %
· <u>Water:</u>	81.0 %
· <u>Solids content:</u>	14.7 %

**· Information with regard to physical hazard classes**

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

**SECTION 10: Stability and reactivity**

· <b>10.1 Reactivity</b>	No further relevant information available.
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**· 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 hazard classes as defined in Regulation (EC) No 1272/2008****· Acute toxicity** Based on available data, the classification criteria are not met.**· LD/LC50 values relevant for classification:****68439-49-6 Ethoxylierte Alkohole C16-18**

Oral LD50 &gt;5,000 mg/kg (rat) (OECD 423)

**64-19-7 acetic acid**

Oral LD50 3,310 mg/kg (rat)

Dermal LD50 1,060 mg/kg (rabbit)

Inhalative LC50/4 h 11.4 mg/l (rat)

**2682-20-4 2-methyl-2H-isothiazol-3-one**

Oral LD50 120 mg/kg (rat)

Dermal LD50 242 mg/kg (rat)

Inhalative LC50/4 h 0.11 mg/l (rat)

**· Primary irritant effect:****· Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**· Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**· Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**· 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**

Based on available data, the classification criteria are not met.

**· STOT-single exposure**

Based on available data, the classification criteria are not met.

**· STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**· Aspiration hazard**

Based on available data, the classification criteria are not met.

**· 11.2 Information on other hazards****· Endocrine disrupting properties**

1506-02-1 1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (Fixolid)

List II

**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****68439-49-6 Ethoxylierte Alkohole C16-18**

IC50/72h &gt;1 mg/l (algae)

EC50/48h &gt;1 mg/l (daphnia magna)

LC50/96h &gt;1 mg/l (piscis)

**64-19-7 acetic acid**

EC50/24h 47 mg/l (daphnia magna)

EC50/15min 11 mg/l (Photobac. phosphoreum)

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EC5	78 mg/l (Entosiphon sulcatum)
	2,850 mg/l (pseudomonas putida)
EC50/48h	>300.8 mg/l (daphnia magna)
IC50/96h	4,000 mg/l (Scenedesmus quadricauda)
EC50/72h	>300.8 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	75 mg/l (Iepomis macrochirus)
	88 mg/l (Pimephales promelas)

**2682-20-4 2-methyl-2H-isothiazol-3-one**

EC50	34.6 mg/l (BES) (DIN 38412-3)
EC50/48h	0.93-1.9 mg/l (daphnia magna)
ErC50/72h	0.1 mg/l (Skeletonekema costatum (Kieselalge))
EC50/16h	2.3 mg/l (pseudomonas putida)
EC20/3h	2.8 mg/l (BES) (DIN 38412-3)
NOEC/21d	0.04 mg/l (daphnia magna)
EC50/72h	0.157 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	4.77-6 mg/l (Oncorhynchus mykiss)

· **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.

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

· **PBT:**

Not applicable.

· **vPvB:**

Not applicable.

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.  
Smaller quantities can be disposed of with household waste.

· **Uncleaned packaging:**

· **Recommendation:**

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

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR, ADN, IMDG, IATA**

Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA**

Void

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**· 14.3 Transport hazard class(es)**

· ADR, ADN, IMDG, IATA

· Class Void

**· 14.4 Packing group**

· ADR, IMDG, IATA Void

**· 14.5 Environmental hazards:**

· Marine pollutant: No

**· 14.6 Special precautions for user**

Not applicable.

**· 14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· UN "Model Regulation": Void

**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.

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

108-88-3 toluene

3

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

108-88-3 toluene

3

· National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 6.1 g/l

**· 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.

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This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· <u>Department issuing SDS:</u>	Laboratory
· <u>Date of previous version:</u>	03.06.2024
· <u>Version number of previous version:</u>	9
· <u>Abbreviations and acronyms:</u>	<p>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</p> <p>ICAO: International Civil Aviation Organisation</p> <p>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>ELINCS: European List of Notified Chemical Substances</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society)</p> <p>LC50: Lethal concentration, 50 percent</p> <p>LD50: Lethal dose, 50 percent</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>SVHC: Substances of Very High Concern</p> <p>vPvB: very Persistent and very Bioaccumulative</p> <p>ATE: Acute toxicity estimate values</p> <p>Flam. Liq. 3: Flammable liquids – Category 3</p> <p>Acute Tox. 3: Acute toxicity – Category 3</p> <p>Acute Tox. 4: Acute toxicity – Category 4</p> <p>Acute Tox. 2: Acute toxicity – Category 2</p> <p>Skin Corr. 1A: Skin corrosion/irritation – Category 1A</p> <p>Skin Corr. 1B: Skin corrosion/irritation – Category 1B</p> <p>Eye Dam. 1: Serious eye damage/eye irritation – Category 1</p> <p>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</p> <p>Skin Sens. 1: Skin sensitisation – Category 1</p> <p>Skin Sens. 1A: Skin sensitisation – Category 1A</p> <p>Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1</p> <p>Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1</p> <p>Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3</p>

EU