

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2022

Version number 2 (replaces version 1)

Revision: 12.12.2022

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

1.1 Product identifier

- Trade name: **Stone Ink**
- Article number: 11490, 11491, 11492, 11493, 11494, 11495
- UFI: W7S1-M0KA-800J-555M

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

- Application of the substance / the mixture: Coating compound/ Surface coating/ paint

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

Flam. Liq. 3 H226 Flammable liquid and vapour.

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

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 GHS07

Signal word

Warning

Hazard-determining components of labelling:

1-methoxy-2-propanol
hydrogen[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)

Hazard statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

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.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

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P403+P235 Store in a well-ventilated place. Keep cool.

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 Mixtures**· Description: Mixture of substances listed below with nonhazardous additions.· Dangerous components:

CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35 02-2119752510-47-0000	1-methoxy-2-propanol Flam. Liq. 3, H226 STOT SE 3, H336	50-100%
CAS: 52277-71-1 EINECS: 257-804-1 Reg.nr.: 01-2120051092-70-xxxx	hydrogen[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-) Eye Irrit. 2, H319; Skin Sens. 1B, H317	<10%
CAS: 1589-47-5 EINECS: 216-455-5 Index number: 603-106-00-0 Reg.nr.: 02-2119752454-37-0000	2-methoxypropanol Flam. Liq. 3, H226 Repr. 1B, H360D Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335	<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**· After inhalation: Supply fresh air; consult doctor in case of complaints.· After skin contact: Generally the product does not irritate the skin.· After eye contact: Rinse opened eye for several minutes under running water.· After swallowing: If symptoms persist consult 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: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

5.3 Advice for firefighters· Protective equipment: No special measures required.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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** 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.
- **Information about fire - and explosion protection:** 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:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 3
- **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:**

107-98-2 1-methoxy-2-propanol

IOELV	Short-term value: 568 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Skin
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· **DNELs****107-98-2 1-methoxy-2-propanol**

Oral	DNEL (Langzeit-wiederholt)	33 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	50.6 mg/kg bw/day (ARB)
		18.1 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	553.5 mg/m ³ Air (ARB)
	DNEL (Langzeit-wiederholt)	369 mg/m ³ Air (ARB)

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43.9 mg/m³ Air (BEV)· **PNECs****107-98-2 1-methoxy-2-propanol**

PNEC (wässrig)	100 mg/l (KA)
	1 mg/l (MW)
	10 mg/l (SW)
PNEC (fest)	100 mg/l (WAS)
	2.47 mg/kg Trockengew (BO)
	4.17 mg/kg Trockengew (MWS)
	41.6 mg/kg Trockengew (SWS)

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Appropriate engineering controls** No further data; see item 7.· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

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

Keep away from foodstuffs, beverages and feed.

Not required.

· **Respiratory protection:**· **Hand protection****Protective gloves**

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

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

ARRETIL (<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:

Kresto Classic (<http://debstoko.com>)

Skin protection agent recommendation for skin aftercare:

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

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

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>).

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

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- Material of gloves 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 The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye/face protection



Tightly sealed goggles

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

- General Information
- Colour: According to product specification
- Odour: Characteristic
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range 120 °C
- Lower and upper explosion limit
- Lower: 2.3 Vol %
- Upper: ~20 Vol %
- Flash point: 35 °C
- Ignition temperature: 270 °C
- pH Not determined.
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic: Not determined.
- Solubility
- water: Fully miscible.
- Vapour pressure at 20 °C: 12 hPa
- Density and/or relative density
- Density at 20 °C: 0.95 g/cm³

9.2 Other information

- Appearance:
- Form: Fluid
- Important information on protection of health and environment, and on safety.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent content:
- Organic solvents: 90.0 %
- Solids content: 0.0 %

Information with regard to physical hazard classes

- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void
- Gases under pressure Void
- Flammable liquids Flammable liquid and vapour.
- Flammable solids Void
- Self-reactive substances and mixtures Void
- Pyrophoric liquids Void

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|--|------|
| · <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

- | | |
|--|---|
| · 10.1 Reactivity | No further relevant information available. |
| · 10.2 Chemical stability | |
| · <u>Thermal decomposition / conditions to be avoided:</u> | 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**
- | | |
|-------------------------|---|
| · <u>Acute toxicity</u> | Based on available data, the classification criteria are not met. |
|-------------------------|---|

- LD/LC50 values relevant for classification:

107-98-2 1-methoxy-2-propanol

Oral	LD50	4,016 mg/kg (rat)
Dermal	LD50	13,500 mg/kg (rbt)
Inhalative	LC50	27.596 mg/l (rat)
	LC50/4 h	54.6 mg/l (rat)

52277-71-1 hydrogen[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)

Oral	LD50	>2,000 mg/kg (rat)
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- | | |
|--|---|
| · <u>Skin corrosion/irritation</u> | Based on available data, the classification criteria are not met. |
| · <u>Serious eye damage/irritation</u> | Based on available data, the classification criteria are not met. |
| · <u>Respiratory or skin sensitisation</u> | May cause an allergic skin reaction. |
| · <u>Germ cell mutagenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Carcinogenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Reproductive toxicity</u> | Based on available data, the classification criteria are not met. |
| · <u>STOT-single exposure</u> | May cause drowsiness or dizziness. |
| · <u>STOT-repeated exposure</u> | Based on available data, the classification criteria are not met. |
| · <u>Aspiration hazard</u> | Based on available data, the classification criteria are not met. |

11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information**· 12.1 Toxicity****· Aquatic toxicity:****107-98-2 1-methoxy-2-propanol**

EC50/96h	>1,000 mg/l (BES)
EC50	>1,000 mg/l (BES) (OECD 209)
	>1,000 mg/l (Pseudokirchneriella subcapitata)
LC 0/96h	>4,600 mg/l (Leuciscus idus)
EC50/48h	23,300 mg/l (daphnia magna)
LC50/96h	>100 mg/l (daphnia magna)
	>100 mg/l (Desmodesmus subspicatus)
	6,812 mg/l (Leuciscus idus) (DIN 38412)
	>1,000 mg/l (Oncorhynchus mykiss) (OECD 203)
	20,800 mg/l (pimephales promelas) (ASTM)

52277-71-1 hydrogen[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)

EC50/48h	>100 mg/l (daphnia magna)
EC50/72h	>100 mg/l (Lemnar minor)
LC50/96h	>100 mg/l (Brachydanio rerio)

1589-47-5 2-methoxypropanol

EC50/48h	>500 mg/l (daphnia magna)
EC50/72h	>1,000 mg/l (Selenastrum capricornutum)
LC50/96h	>1,000 mg/l (Pimephales promelas)

· 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

The product does not contain substances with endocrine disrupting properties.

· 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**

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

· Uncleaned packaging:**· Recommendation:**

Disposal must be made according to official regulations.

· Recommended cleansing agents:

Water, if necessary together with cleansing agents.

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SECTION 14: Transport information**· 14.1 UN number or ID number**· ADR, IMDG, IATA UN1263**· 14.2 UN proper shipping name**· ADR 1263 PAINT
· IMDG, IATA PAINT**· 14.3 Transport hazard class(es)**· ADR· Class 3 (F1) Flammable liquids.
· Label 3· IMDG, IATA· Class 3 Flammable liquids.
· Label 3**· 14.4 Packing group**· ADR, IMDG, IATA III**· 14.5 Environmental hazards:**· Marine pollutant: No**· 14.6 Special precautions for user**Warning: Flammable liquids.
· Hazard identification number (Kemler code): 30
· EMS Number: F-E, S-E
· Stowage Category A**· 14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· Transport/Additional information:· ADR· Limited quantities (LQ) 5L
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml· Transport category 3· Tunnel restriction code D/E· IMDG· Limited quantities (LQ) 5L
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml· UN "Model Regulation":

UN 1263 PAINT, 3, III

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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
 - Seveso category
 - Qualifying quantity (tonnes) for the application of lower-tier requirements
 - Qualifying quantity (tonnes) for the application of upper-tier requirements
 - REGULATION (EC) No 1907/2006 ANNEX XVII
- | | |
|--|------------------------------------|
| | None of the ingredients is listed. |
| | P5c FLAMMABLE LIQUIDS |
| | 5,000 t |
| | 50,000 t |
| | 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

None of the ingredients is listed.

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

None of the ingredients is listed.

- 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 855.0 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.

- Department issuing SDS: Laboratory
- Contact: Elke Hake
Fon ++49 (0)911 64296-59
@mail E.Hake@akemi.de
- Date of previous version: 12.12.2022

- Version number of previous version:

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- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international 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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
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
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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