

Version: 1.2

Product number: 697328

Revision Date: 15.09.2022

Print Date: 08.11.2022

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product number                      697328  
Product name                        AZ Developer

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

Use of the Sub-                      : Materials for use in technical applications  
stance/Mixture

**1.3 Details of the supplier of the safety data sheet**

Company                              Merck KGaA \* 64271 Darmstadt \* Germany \* Phone:+49 6151 72-0  
Responsible Department        \* e-mail: ELECTRONICS\_SDS@merckgroup.com

**1.4 Emergency telephone number**

+49 6151 722440

CHEMTREC International Emergency Telephone Number +1 703-741-  
5970 [CCN 842835]

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2                      H319: Causes serious eye irritation.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms                      :



Signal word                              : Warning

Hazard statements                      : H319 Causes serious eye irritation.

Precautionary statements        : **Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-  
ter for several minutes. Remove contact lenses, if present and  
easy to do. Continue rinsing.

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## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous solution

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Disodium metasilicate	6834-92-0 229-912-9 014-010-00-8 01-2119449811-37-xxxx	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 3 - < 5
tri-sodium phosphate	7601-54-9 231-509-8 01-2119489800-32-xxxx	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 1 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If inhaled : fresh air.

In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact : rinse out with plenty of water.  
Call in ophthalmologist.

Remove contact lenses.

If swallowed : immediately make victim drink water (two glasses at most).  
Consult a physician.

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

Symptoms : irritant effects  
gastric pain  
Vomiting  
Drying-out effect resulting in rough and chapped skin.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

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

Specific hazards during fire-fighting : Not combustible.  
Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.  
Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:  
Do not breathe vapours, aerosols.  
Avoid substance contact.  
Ensure adequate ventilation.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Protective equipment see section 8.

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## 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® OH<sup>-</sup>, Merck Art. No. 101596). Dispose of properly. Clean up affected area.

## 6.4 Reference to other sections

For disposal considerations see section 13.

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Observe label precautions.

Hygiene measures : Change contaminated clothing. Wash hands after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Further information on storage conditions : Tightly closed.

Risks from decomposition products: see section 10.3

Recommended storage temperature : If there is a suitable storage temperature range to be complied with, product label contains the relevant information accordingly.

### 7.3 Specific end use(s)

Specific use(s) : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

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Substance name	End Use	Exposure routes	Potential health effects	Value
tri-sodium phosphate	Workers	inhalation	Long-term systemic effects	4,07 mg/m <sup>3</sup>

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
tri-sodium phosphate	Fresh water	0,05 mg/l
	Marine water	0,005 mg/l
	Aquatic intermittent release	0,5 mg/l
	Sewage treatment plant	50 mg/l

## 8.2 Exposure controls

### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

### Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection : Safety glasses

Hand protection :

splash contact

Glove material : Nitrile rubber

Glove thickness : 0,4 mm

Break through time : 10 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example: KCL 730 Camatril® -Velours(splash contact)  
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Respiratory protection : required when vapours/aerosols are generated.

Filter type : Filter A-(P2)

Protective measures : Protective clothing

## Environmental exposure controls

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Water	:	Do not flush into surface water or sanitary sewer system.
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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	Not applicable
Freezing point	:	No data available
Boiling point/boiling range	:	approximately 100 °C
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	ca. 13 (20 °C) Concentration: 100 %
Viscosity		
Viscosity, dynamic	:	approximately 1 mPas (20 °C)
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	miscible in all proportions
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	approximately 23 mbar (20 °C)
Density	:	approximately 1 g/cm <sup>3</sup> (20 °C)
Relative vapour density	:	No data available

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## 9.2 Other information

Explosives	:	Not classified as explosive.
Oxidizing properties	:	none
Flammability (liquids)	:	not combustible
Evaporation rate	:	No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Corrosive to metals  
See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Violent reactions possible with:  
The generally known reaction partners of water.

### 10.4 Conditions to avoid

Conditions to avoid : no information available

### 10.5 Incompatible materials

Materials to avoid : Aluminium  
Zinc

### 10.6 Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product:

Acute oral toxicity	:	Acute Toxicity Estimate (ATE): > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Symptoms: Possible symptoms:, mucosal irritations
Acute dermal toxicity	:	No data available
Acute toxicity (other routes of administration)	:	No data available

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## **Components:**

### **Disodium metasilicate:**

- Acute oral toxicity : LD50 (Rat, male and female): 1.152 mg/kg  
GLP: no  
Remarks: (ECHA)
- Acute inhalation toxicity : Assessment: Toxic effects cannot be excluded
- Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: US-EPA  
GLP: yes  
Remarks: (ECHA)

### **tri-sodium phosphate:**

- Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat, male and female): > 0,83 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
The value is given in analogy to the following substances:  
sodium dihydrogen phosphate
- Acute dermal toxicity : Assessment: Toxic effects cannot be excluded

## **Skin corrosion/irritation**

### **Product:**

- Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

## **Components:**

### **Disodium metasilicate:**

- Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Causes burns.  
GLP : yes  
Remarks : (ECHA)

### **tri-sodium phosphate:**

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Result : Skin irritation

## Serious eye damage/eye irritation

### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.

### **Components:**

#### **tri-sodium phosphate:**

Species : Rabbit  
Method : US-EPA  
Result : irritating

## Respiratory or skin sensitisation

### **Product:**

No data available

### **Components:**

#### **tri-sodium phosphate:**

Test Type : Sensitisation test:  
Exposure routes : dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative  
GLP : yes

The value is given in analogy to the following substances: sodium dihydrogen phosphate

## Germ cell mutagenicity

### **Product:**

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

## Carcinogenicity

### **Product:**

No data available

## Reproductive toxicity

### **Product:**

Effects on fertility : No data available

Effects on foetal development : No data available

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## STOT - single exposure

### Product:

No data available

### Components:

#### Disodium metasilicate:

Target Organs : Respiratory system  
Assessment : May cause respiratory irritation.

#### tri-sodium phosphate:

Assessment : May cause respiratory irritation.

## STOT - repeated exposure

### Product:

No data available

### Repeated dose toxicity

### Product:

No data available

### Aspiration toxicity

### Product:

No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

### Product:

Remarks : The toxicological data has been taken from products of similar composition.

Remarks : Possible symptoms:

Remarks : gastric pain  
Vomiting  
Drying-out effect resulting in rough and chapped skin.

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Remarks	:	Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.
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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Product:**

No data available

#### **Components:**

##### **Disodium metasilicate:**

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 210 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no Method: ISO 7346/1 GLP: no Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia magna (Water flea)): 1.700 mg/l Exposure time: 48 h Test Type: static test Method: Regulation (EC) No. 440/2008, Annex, C.2 GLP: yes Remarks: (ECHA)
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 345,4 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: DIN 38412 part 9 GLP: yes Remarks: (ECHA)
Toxicity to microorganisms	:	(activated sludge): > 100 mg/l Exposure time: 3 h Test Type: Respiration inhibition Analytical monitoring: no Method: OECD Test Guideline 209 GLP: yes Remarks: (ECHA)

##### **tri-sodium phosphate:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
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	Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes

## 12.2 Persistence and degradability

### **Product:**

No data available

### **Components:**

#### **tri-sodium phosphate:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

## 12.3 Bioaccumulative potential

### **Product:**

No data available

### **Components:**

#### **tri-sodium phosphate:**

Partition coefficient: n-octanol/water : Remarks: Not applicable for inorganic substances

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## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Components:

#### **tri-sodium phosphate:**

Assessment : PBT/vPvB: Not applicable for inorganic substances

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : Discharge into the environment must be avoided.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Waste should not be disposed of by release to sewers.

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## SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Storage class (TRGS 510) : 10 - 13, Other liquids and solids

#### Other regulations:

Take note of Dir 94/33/EC on the protection of young people at work.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation

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STOT SE : Specific target organ toxicity - single exposure

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm3).

## Revision Note

Safety datasheet sections : General revision  
which have been updated

**Classification of the mixture:**

**Classification procedure:**

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Eye Irrit. 2

H319

Based on product data or assessment

### Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

REG\_EU / EN