

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 1.0

Product number: 697331

Date of first issue: 19.07.2017

Print Date: 05.02.2018

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

1.1 Product identifier

Product number 697331

Product name AZ 351 B Developer

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

Identified uses Intermediate for electronic industry

1.3 Details of the supplier of the safety data sheet

Company Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department PM-OQR * e-mail: PM_SDS_Supply@merckgroup.com

1.4 Emergency telephone number

Please contact the regional company representation in your country.

SECTION 2: Hazards identification



2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals. On basis of test data.
Serious eye damage, Category 1	H318: Causes serious eye damage. On basis of test data.
Reproductive toxicity, Category 1B	H360FD: May damage fertility. May damage the unborn child. Calculation method

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :  

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H318 Causes serious eye damage.
H360FD May damage fertility. May damage the unborn child.

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Precautionary statements :

Prevention:

P201 Obtain special instructions before use.

P280 Wear eye protection/ face protection.

Response:

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

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P313 Get medical advice/ attention.

Hazardous components which must be listed on the label:
disodium tetraborate

sodium hydroxide

Additional Labelling

Restricted to professional users.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical nature : Aqueous alkaline solution.

3.1 Substance

Not applicable

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. Registration number	Classification	Concentration (% w/w)
disodium tetraborate	1330-43-4 01-2119490790-32-XXXX	Eye Irrit. 2; H319 Repr. 1B; H360FD	>= 4,5 - < 10
sodium hydroxide	1310-73-2 01-2119457892-27-xxxx	Met. Corr. 1; H290 Skin Corr. 1A; H314	>= 1 - < 2

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : fresh air. Call in physician.

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

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Consult a physician.

In case of eye contact : rinse out with plenty of water.
Immediately call in ophthalmologist.
Remove contact lenses.

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

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

Symptoms : Irritation and corrosion
Risk of serious damage to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

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 firefighting : 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 : Suppress (knock down) gases/vapours/mists with a water spray jet.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

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.

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Ensure adequate ventilation.
Evacuate the danger area, observe emergency procedures, consult an expert.
Advice for emergency responders:
Protective equipment see section 8.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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 carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Do not inhale substance/mixture.
Avoid generation of vapours/aerosols.
Observe label precautions.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

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

No metal containers.

Further information on storage conditions : Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

Risks from decomposition products: see section 10.3

Recommended storage temperature : Recommended storage temperature see product label.

7.3 Specific end 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:

Substance name	End Use	Exposure routes	Potential health effects	Value
disodium tetraborate	Workers	inhalation	Acute local effects	2,52 mg/m ³
Remarks:	Expressed as, Boron			
	Workers	dermal	Long-term systemic effects	68 mg/kg
Remarks:	Expressed as, Boron			
	Workers	inhalation	Long-term systemic effects	1,45 mg/m ³
Remarks:	Expressed as, Boron			
	Workers	inhalation	Long-term local effects	2,52 mg/m ³
Remarks:	Expressed as, Boron			
	Consumers	oral	Acute systemic effects	0,17 mg/kg
Remarks:	Expressed as, Boron			
	Consumers	inhalation	Acute local effects	2,52 mg/m ³
Remarks:	Expressed as, Boron			
	Consumers	dermal	Long-term systemic effects	34,3 mg/kg
Remarks:	Expressed as, Boron			
	Consumers	inhalation	Long-term systemic effects	0,73 mg/m ³
Remarks:	Expressed as, Boron			
	Consumers	oral	Long-term systemic effects	0,17 mg/kg
Remarks:	Expressed as, Boron			
	Consumers	inhalation	Long-term local effects	2,52 mg/m ³
Remarks:	Expressed as, Boron			
sodium hydroxide	Workers	inhalation	Long-term local effects	1 mg/m ³
	Consumers	inhalation	Long-term local effects	1 mg/m ³

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

Substance name	Environmental Compartment	Value
disodium tetraborate	Fresh water	2,9 mg/l
Remarks:	Expressed as, Boron	
	Marine water	2,9 mg/l
	Expressed as, Boron	
	Aquatic intermittent release	13,7 mg/l
	Expressed as, Boron	
	Sewage treatment plant	10 mg/l
	Expressed as, Boron	

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	Soil	5,7 mg/kg
	Expressed as, Boron	

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 : Tightly fitting safety goggles

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).

Protective measures : protective clothing

Respiratory protection : required when vapours/aerosols are generated.

Recommended Filter type: : Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

The Safety Data Sheets for catalogue items are available at www.merck-performance-materials.com

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Form	liquid
Colour	colourless
Odour	odourless
Odour Threshold	No information available.
pH	ca. 13 at 20 °C
Melting point	No information available.
Boiling point/boiling range	ca. 100 °C
Flash point	No information available.
Evaporation rate	No data available
Flammability (solid, gas)	No information available.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	ca.23 mbar at 20 °C
Relative vapour density	No data available
Density	ca.1 g/cm ³ at 20 °C
Solubility(ies)	No information available.
Water solubility	miscible in all proportions
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, kinematic	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.

9.2 Other data

Ignition temperature	Not applicable
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Viscosity, dynamic	ca.1 mPas at 20 °C
Corrosion	Corrosive to metals

SECTION 10: Stability and reactivity

10.1 Reactivity

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 : Metals

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : No data available
Acute inhalation toxicity : Symptoms: Possible symptoms:, mucosal irritations

Acute dermal toxicity : No data available

Components:

disodium tetraborate:

Acute oral toxicity : LD50 (Rat, male): > 2.500 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 2,04 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: The value is given in analogy to the following

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substances:

The value is given in analogy to the following substances: di-Natriumtetraborat-Pentahydrat

Acute dermal toxicity

: LD50 (Rabbit, male and female): > 2.000 mg/kg

Remarks: (ECHA)

The value is given in analogy to the following substances:

The value is given in analogy to the following substances: di-Natriumtetraborat-Pentahydrat

sodium hydroxide:

No data available

Skin corrosion/irritation

Product:

Species: Rabbit

Classification: No skin irritation

Method: OECD Test Guideline 404

Result: No skin irritation

Components:

disodium tetraborate:

Species: Rabbit

Exposure time: 4 h

Result: No irritation

Remarks: (ECHA)

The value is given in analogy to the following substances:

The value is given in analogy to the following substances: di-Natriumtetraborat-Pentahydrat

sodium hydroxide:

Species: Rabbit

Result: Causes severe burns.

Remarks: (External MSDS)

Serious eye damage/eye irritation

Product:

Species: Rabbit

Classification: Risk of serious damage to eyes.

Remarks: Risk of blindness!

Components:

disodium tetraborate:

Result: irritating

sodium hydroxide:

Species: Rabbit

Result: Irreversible effects on the eye

Remarks: (ECHA)

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Remarks: Causes serious eye damage.

Respiratory or skin sensitisation

Product:

No data available

Components:

sodium hydroxide:

Test Type: Patch test:
Exposure routes: Skin contact
Species: Human
Result: negative
Remarks: (ECHA)

Germ cell mutagenicity

Product:

No data available

Components:

disodium tetraborate:

Genotoxicity in vitro : Test Type: Ames test
Result: negative
Remarks: (IUCLID)

sodium hydroxide:

Genotoxicity in vitro : Test Type: Mutagenicity (mammal cell test): micronucleus.
Result: negative
Remarks: (Lit.)

: Test Type: Ames test
Species: Escherichia coli
Result: negative
Remarks: (IUCLID)

: Test Type: Ames test
Result: negative
Remarks: (IUCLID)

Carcinogenicity

Product:

This information is not available.

Components:

This information is not available.

Reproductive toxicity

Components:

disodium tetraborate:

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Effects on fertility	:	
Effects on foetal development	:	Remarks: No substantiated information from toxicological studies available. Remarks: No substantiated information from toxicological studies available.
Reproductive toxicity - Assessment	:	Clear evidence of adverse effects on sexual function and fertility, based on animal experiments. Clear evidence of adverse effects on development, based on animal experiments.

sodium hydroxide:

Effects on fertility	:	No data available
Effects on foetal development	:	Remarks: Did not show teratogenic effects in animal experiments. (Lit.)

STOT - single exposure

Product:

No data available

Components:

No data available

STOT - repeated exposure

Product:

No data available

Components:

No data available

Repeated dose toxicity

Product:

No data available

Components:

No data available

Aspiration toxicity

Product:

No data available

Components:

No data available

Experience with human exposure

Product:

No data available

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Components:

No data available

11.2 Other information

Product:

Other dangerous properties can not be excluded.
This substance should be handled with particular care.

SECTION 12: Ecological information

12.1 Toxicity

Product:

No data available

Components:

disodium tetraborate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (E.sulcatum): 1,3 mg/l
Exposure time: 72 h
Remarks: (IUCLID)

Toxicity to algae : IC50 (Desmodesmus subspicatus (green algae)): 158 mg/l
Exposure time: 96 h
Remarks: (IUCLID)

Toxicity to microorganisms : EC0 (Pseudomonas putida): 15,8 mg/l
Exposure time: 16 h
Remarks: (IUCLID)

sodium hydroxide:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l
Exposure time: 96 h
Remarks: (External MSDS)

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 76 mg/l
Exposure time: 24 h
Remarks: (50% solution)
(External MSDS)

EC50 (Ceriodaphnia (water flea)): 40,4 mg/l
Exposure time: 48 h
Remarks: (ECHA)

Toxicity to microorganisms : EC50 (Photobacterium phosphoreum): 22 mg/l
Exposure time: 15 min
Remarks: (External MSDS)

Toxicity to fish (Chronic toxicity) : NOEC: 56 mg/l
Exposure time: 96 h
Species: Poecilia reticulata (guppy)

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12.2 Persistence and degradability

Product:

No data available

Components:

disodium tetraborate:

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

sodium hydroxide:

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

12.3 Bioaccumulative potential

Product:

No data available

Components:

disodium tetraborate:

Partition coefficient: n-octanol/water : Remarks: Not applicable

sodium hydroxide:

Partition coefficient: n-octanol/water : Remarks: Not applicable

12.4 Mobility in soil

Product:

No data available

Components:

disodium tetraborate:

No data available

sodium hydroxide:

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..

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Components:

disodium tetraborate:

Assessment : PBT/vPvB: Not applicable for inorganic substances.

sodium hydroxide:

Assessment : PBT/vPvB: Not applicable for inorganic substances.

12.6 Other adverse effects

Product:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

Air transport(IATA)

14.1. UN/ID No. : UN 1824
14.2. Proper shipping name : Sodium hydroxide solution
14.3. Class : 8
14.4. Packing group : III
14.5 Environmentally hazardous : --
14.6 Special precautions for user : no

Sea transport(IMDG)

14.1. UN number : UN 1824
14.2. Proper shipping name : SODIUM HYDROXIDE SOLUTION
14.3. Class : 8
14.4. Packing group : III
14.5 Environmentally hazardous : --
14.6 Special precautions for user : yes
EmS Code : F-A, S-B
Segregation group : Alkalis

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant

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Land transport(ADR/RID)

14.1. UN number : UN 1824
14.2. Proper shipping name : SODIUM HYDROXIDE SOLUTION
14.3. Class : 8
14.4. Packing group : III
14.5 Environmentally hazardous : --

SECTION 15: Regulatory information

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

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : disodium tetraborate

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (A) : disodium tetraborate

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 : 8B

Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.
Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Training advice

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Provide adequate information, instruction and training for operators.

Full text of H-Statements

H290	:	May be corrosive to metals.
H314	:	Causes severe skin burns and eye damage.
H319	:	Causes serious eye irritation.
H360FD	:	May damage fertility. May damage the unborn child.

Key or legend to abbreviations and acronyms used in the safety data sheet

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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.