

BrazeTec t		
Version 2.11	DE	SDS Number: 30000001042 Revision Date: 20.07.2018
SECTION 1: Identifica	ation of t	he substance/mixture and of the company/undertaking
Product identifier		: BrazeTec t
	uses of th	e substance or mixture and uses advised against
Use of the Sub- stance/Mixture		: brazing
1.3 Details of the suppl	ier of the	safety data sheet
Company		: SAXONIA Technical Materials GmbH Rodenbacher Chaussee 4 63457 Hanau Germany
E-mail address of period responsible for the S		: sdb@saxonia-tm.de
1.4 Emergency telepho	ne numbe	er in the second se
Poison Center		40. 20. 402. 40
Telephone		: +49 30 192 40
Hours of operation		: 24HRS
<u>Supplier</u>		: Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1B

H360FD: May damage fertility. May damage the



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		unborn child.
Specific target organ posure, Category 3, F		
2 Label elements		
Labelling (REGULA	TION (E	C) No 1272/2008)
Hazard pictograms	•	
Circal word		
Signal word		: Danger
Hazard statements		: H335 May cause respiratory irritation. H360FD May damage fertility. May damage the unborn
		H360FD May damage fertility. May damage the unborn child.
Precautionary statem	ents	Drawantian
		 Prevention: P201 Obtain special instructions before use.
		P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
		P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
		-
		Response: P304 + P340 + P312 IF INHALED: Remove person to fresh
		air and keep comfortable for breathing. Call a POISON
		CENTER/doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice,
		P308 + P313 IF exposed or concerned: Get medical advice, attention.
		Storage:
		P403 + P233 Store in a well-ventilated place. Keep contained
		tightly closed.
	ate whie	n must be listed on the label:
Hazardous compone	ILS WING	
Hazardous compone boric acid	Its whic	

Restricted to professional users.

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 25,5 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 25,5 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 21 %



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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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No.		(/0 11/11)
	Registration number		
boric acid	10043-35-3 233-139-2 005-007-00-2	Repr. 1B; H360FD	<= 25
	01-2119486683-25		
phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	<= 25
sodium borate pentahydrate	12179-04-3 005-011-02-9	Eye Irrit. 2; H319 Repr. 1B; H360FD	<= 6,5
potassium hydroxide	1310-58-3 215-181-3 019-002-00-8	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318	<= 2

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Move to fresh air. If unconscious, place in recovery position and get medical attention immediately.
In case of skin contact	:	If on clothes, remove clothes.
In case of eye contact	:	Remove contact lenses. Flush eyes with water as a precaution. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages.



				TECHNICAL MATERIALS
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			Never give anything by mouth the symptoms persist, call a physical sector of the symptom of the	
.2 Most important sym	ptoms a	nd e	effects, both acute and delayed	ł
Symptoms		:	Inhalation may provoke the foll Shortness of breath Asthma	owing symptoms:
4.3 Indication of any im	mediate	me	dical attention and special trea	tment needed
SECTION 5: Firefighti	ng mea	sur	es	
5.1 Extinguishing media	1			
Suitable extinguishin		:	Use extinguishing measures th cumstances and the surroundir	
Unsuitable extinguisl media	hing	:	High volume water jet	
5.2 Special hazards aris	ing from	the	e substance or mixture	
Hazardous combusti ucts	-			
5.3 Advice for firefighte	rs			
Special protective ec for firefighters		:	No special protective equipmer	nt required.
Further information		:	Standard procedure for chemic Use extinguishing measures th cumstances and the surroundir	at are appropriate to local cir-
SECTION 6: Accident	al releas	se r	neasures	
6.1 Personal precaution	s. protec	ctiv	e equipment and emergency p	rocedures
Personal precautions	•	:	Use personal protective equipn	
6.2 Environmental preca	autions			
Environmental preca	utions	:	Prevent product from entering	drains.

Environmental precautions	:	Prevent product from entering drains.
		Prevent further leakage or spillage if safe to do so.
		If the product contaminates rivers and lakes or drains inform
		respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel,
		acid binder, universal binder, sawdust).

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6.4 Reference to other sections

SECTION 7: Handling and storage 7.1 Precautions for safe handling Advice on safe handling Avoid formation of aerosol. • Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Advice on protection against : Normal measures for preventive fire protection. fire and explosion Hygiene measures : General industrial hygiene practice. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight.
Advice on common storage	:	No materials to be especially mentioned.
Storage class (TRGS 510)	:	6.1D, Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects
Further information on stor- age stability	:	Keep in a dry place. No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
boric acid	10043-35-3	AGW (Inhalable fraction)	0,5 mg/m3 (Borate)	DE TRGS 900
Peak-limit: excur- sion factor (catego- ry)	2;(I)			
Further information	element conte	ent of the correspond	nces, The threshold value is ling metal., When there is co values, there is no risk of har	mpliance with

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	born child			
		TWA (Inhalable	2 mg/m3	ACGIH
		fraction)	(Borate)	
		STEL (Inhalable	6 mg/m3	ACGIH
		fraction)	(Borate)	
sodium borate	12179-04-3	AGW (Inhalable	0,5 mg/m3	DE TRGS
pentahydrate		fraction)	(Borate)	900
Peak-limit: excur-	2;(I)			
sion factor (catego-				
ry)				
Further information			nces, The threshold value is	
			ling metal., When there is co	
	the OEL and I	piological tolerance v	alues, there is no risk of har	ming the un-
	born child			-
		TWA (Inhalable	2 mg/m3	ACGIH
		fraction)	(Borate)	
		STEL (Inhalable	6 mg/m3	ACGIH
		fraction)	(Borate)	

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection	:	Safety glasses with side-shields conforming to EN166
Hand protection Material Break through time Glove thickness		Nitrile rubber > 240 min 0,38 mm
Skin and body protection	:	Impervious clothing Footwear protecting against chemicals
Respiratory protection	:	In the case of vapour formation use a respirator with an ap- proved filter. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	dispersion
Colour	:	yellow
Odour	:	odourless
рН	:	8
Flash point	:	Method: closed cup



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		does not flash				
Density		: 1,1 g/cm3				
9.2 Other information Flammability (liquids)		: The product is not flammable.				
SECTION 10: Stability a	and react	tivity				
 10.1 Reactivity No dangerous reaction 10.2 Chemical stability No decomposition if stable 		nder conditions of normal use. applied as directed.				
10.3 Possibility of hazard						
Hazardous reactions		: Stable under recommended storage conditions.				
10.4 Conditions to avoid Conditions to avoid						
10.5 Incompatible materia Materials to avoid	als	: None known.				
10.6 Hazardous decompo	sition pro	oducts				
SECTION 11: Toxicological information						
11.1 Information on toxic	ological e	ffects				
Acute toxicity						
Product: Acute oral toxicity	:	LD50 (Rat): > 5.110 mg/kg GLP: no				
Acute inhalation toxicit	ty :	Remarks: No data available				
Acute dermal toxicity	:	Remarks: No data available				
Components:						
boric acid: Acute oral toxicity	:	LD50 (Rat, male): > 2.600 mg/kg Method: OECD Test Guideline 401 GLP: yes Remarks: Based on read across from structural related sub- stance				



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Acute inhalation to	xicity	:	LC50 (Rat, male and female): > 2,	12 mg/l
			Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes	3
Acute dermal toxic	ity	:	LD50 (Rabbit): > 2.000 mg/kg GLP: no	
phosphoric acid,	trisodium	sal	t, dodecahydrate:	
Acute oral toxicity		:	LD50 (Rat): 7.400 mg/kg	
Acute inhalation to	xicity	:	Assessment: No data available	
Acute dermal toxic	ity	:	Assessment: No data available	
sodium borate pe	entahydrate	e:		
Acute oral toxicity		:	LD50 (Rat): 2.660 mg/kg	
Acute inhalation to	xicity	:	Assessment: No data available	
Acute dermal toxic	ity	:	Assessment: No data available	
potassium hydro	xide:			
Acute oral toxicity		:	Assessment: No data available	
Acute inhalation to	xicity	:	Assessment: The substance or mix tion toxicity	kture has no acute inhala-
Acute dermal toxic	ity	:	Assessment: The substance or mix toxicity	xture has no acute dermal
Skin corrosion/iri	itation			
Product:				
Species: Rabbit				

Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: no

Components:

boric acid: Result: No skin irritation

phosphoric acid, trisodium salt, dodecahydrate: Result: Skin irritation



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potassium hydroxide:

Species: Rabbit Result: Corrosive after 3 minutes or less of exposure

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Serious eye damage/eye irritation

Product:

Species: Rabbit Exposure time: 72 h Method: OECD Test Guideline 405 Result: No eye irritation GLP: no

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

boric acid: Result: No eye irritation

phosphoric acid, trisodium salt, dodecahydrate:

Result: Eye irritation

sodium borate pentahydrate:

Result: Eye irritation

Respiratory or skin sensitisation

Product:

Remarks: No data available

Germ cell mutagenicity

Product:

: Remarks: No data available

Carcinogenicity

Genotoxicity in vitro

Product: Remarks: No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available



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STOT - single exposure

Product: Remarks: No data available

Components:

phosphoric acid, trisodium salt, dodecahydrate: Assessment: May cause respiratory irritation.

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STOT - repeated exposure

Product: Remarks: No data available

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Components:

boric acid:

Toxicity to daphnia and other : aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 133 mg/l Exposure time: 48 h Remarks: Fresh water
Toxicity to fish (Chronic tox- : icity)	:	NOEC: 2,1 mg/l Exposure time: 87 DAYS Species: Oncorhynchus mykiss (rainbow trout) Remarks: Fresh water
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 6 mg/l Exposure time: 21 DAYS Species: Daphnia magna (Water flea) Remarks: Fresh water

phosphoric acid, trisodium salt, dodecahydrate:

Ecotoxicology Assessment		
Acute aquatic toxicity	:	No data available

sodium borate pentahydrate:



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Toxicity to daphnia an aquatic invertebrates	d other	:	EC50 (Crustaceans): 141 mg/l Exposure time: 48 h	
potassium hydroxide	e:			
Ecotoxicology Asses Acute aquatic toxicity		:	No data available	
12.2 Persistence and deg No data available	radabili	ty		
12.3 Bioaccumulative pot	tential			
Components:				
boric acid: Partition coefficient: n- octanol/water	-	:	log Pow: -1,09	
12.4 Mobility in soil No data available				
12.5 Results of PBT and	vPvB as	se	ssment	
Product: Assessment		:	This substance/mixture contains to be either persistent, bioaccur very persistent and very bioaccu 0.1% or higher	nulative and toxic (PBT), or
12.6 Other adverse effect	S			
Product: Additional ecological in mation	nfor-	:	No data available	
SECTION 13: Disposal	consid	era	ations	
13.1 Waste treatment me	thods			
Product		:	Dispose of in accordance with th	e European Directives on

:	waste and hazardous waste. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Send to a licensed waste management company.



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		Dispose of as hazardous waste in national regulations.	compliance with local and
Contaminated packagir	ng	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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, preparations and articles (Annex XVII)	:	boric acid (30) sodium borate pentahydrate (30)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	boric acid sodium borate pentahydrate
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
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import	:	Not applicable



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of dangerous chem	icals		
		/EU of the European Parliament and ving dangerous substances. Not applicable	of the Council on the control of
Water contaminatin (Germany)	g class	: WGK 1 slightly water endanger Classification according to AwS	
TA Luft List (Germa	any)	 Total dust: Not applicable Inorganic substances in powde Not applicable Inorganic substances in vapour Not applicable Organic Substances: Not applicable Carcinogenic substances: Not applicable Mutagenic: Not applicable Toxic to reproduction: others: 25,5 % 	
Volatile organic cor	npounds	: Directive 2010/75/EU of 24 Nov emissions (integrated pollution Not applicable	

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:					
CH INV	:	The formulation contains substances listed on the Swiss In- ventory, Not in compliance with the inventory			
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.			
AICS	:	Not in compliance with the inventory			
NZIoC	:	Not in compliance with the inventory			
ENCS	:	Not in compliance with the inventory			
ISHL	:	Not in compliance with the inventory			
KECI	:	Not in compliance with the inventory			



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PICCS		: On the inventory, or in comp	liance with the inventory
IECSC		: On the inventory, or in comp	liance with the inventory
TCSI		: On the inventory, or in comp	liance with the inventory
TSCA		Not On TSCA Inventory	

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements				
H290 H302 H314 H315		May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. Causes skin irritation.		
H318 H319 H335 H360FD	:	Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. May damage fertility. May damage the unborn child.		
Full text of other abbreviations				
Repr. Skin Corr. Skin Irrit. STOT SE ACGIH DE TRGS 900 ACGIH / TWA	:	Acute toxicity Serious eye damage Eye irritation Corrosive to metals Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - single exposure USA. ACGIH Threshold Limit Values (TLV) Germany. TRGS 900 - Occupational exposure limit values. 8-hour, time-weighted average Short-term exposure limit Time Weighted Average		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 Mari-

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time 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; TCSI - Taiwan Chemical Substance 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

Other information	: This safety datasheet co Regulation (EC) No. 19	omplies with the requirements of 07/2006.
Classification of the mixture:		Classification procedure:
Repr. 1B	H360FD	Calculation method
STOT SE 3	H335	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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