



Printing date 09.02.2024 Version number 25 (replaces version 24) Revision: 09.02.2024

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

· 1.1 Product identifier

• Trade name BRAWO Silicate FAST - Komponente B

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

No further relevant information available.

· Application of the substance

/ the mixture Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: BRAWO SYSTEMS GmbH

Blechhammerweg 13-17 67659 Kaiserslautern Deutschland/Germany

Tel: +49(0)631-205 61 100

Informing department: Technische Abteilung

msds@brawoliner.de

· 1.4 Emergency telephone

number: +49 (0) 61 31 - 19 240 (Giftnotruf Mainz)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.
Carc. 2 H351 Suspected of causing cancer.
STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

· 2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



GHS07 GHS08

· Signal word Danger

· Hazard-determining

components of labelling: diphenylmethanediisocyanate,isomeres and homologues

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H317 May cause an allergic skin reaction.

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	H351 Suspecte	ed of causing cancer.
		se respiratory irritation.
		se damage to organs through prolonged or repeate
	•	
D	exposure	
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.
	P260	Do not breathe dust/fume/gas/mist/vapour. spray.
	P280	Wear protective gloves/protective clothing/ey protection/face protection/hearing protection.
	P284	[In case of inadequate ventilation] were respiratory protection.
	P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
	P403+P233	Store in a well-ventilated place. Keep containe tightly closed.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional information:	EUH204 Conta	ins isocyanates. May produce an allergic reaction.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	As from 24 August 2023 adequate training is required before	
	industrial or pro	
· 2.3 Other hazards	madothar or pro	orocolorial acc.
· Results of PBT and vPvB as	coccmont	
· PBT:	Not applicable.	

SECTION 3: Com	position/informat	tion on inared	ients

· vPvB:

• **Description:** Mixture consisting of the following components.

Not applicable.

	ture continuing or the remaining compensation	
· Dangerous components:		
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	50-70%
	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	
	Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %	
	Skin Irrit. 2; H315: C ≥ 5 %	
	Resp. Sens. 1; H334: C ≥ 0.1 %	
	STOT SE 3; H335: C ≥ 5 %	
CAS: 28553-12-0	diisononyl phthalate	10-30%
EINECS: 249-079-5	substance with a Community workplace exposure limit	
Additional informat	tion For the wording of the listed hazard phrases refer to section	on 16.

– GB





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SECTION 4: First aid measures

· 4.1 Description of first aid measures

• **General information** Take affected persons into the open air.

Seek medical treatment.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the

accident.

• After inhalation Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position

for transport.

· After skin contact Instantly wash with water and soap and rinse thoroughly.

· After eye contact Call a doctor immediately.

Rinse opened eye for several minutes under running water. If

symptoms persist, consult doctor.

· After swallowing Call a doctor immediately.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or

mixture Can be released in case of fire

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be

excluded.

· 5.3 Advice for firefighters

· **Protective equipment:** Put on breathing apparatus.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and

emergency procedures Not required.

6.2 Environmental

precautions: No special measures required.

6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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 information on disposal.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection

against explosions and fires: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Information about storage in

one common storage facility: Not required.

· Further information about

storage conditions: Keep container tightly sealed.

· Storage class 10

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m3

Sen; as -NCO

CAS: 28553-12-0 diisononyl phthalate

WEL Long-term value: 5 mg/m3

· DNELs

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Inhalative DNEL 0.05 mg/m³ (ArL)

PNECs

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

PNEC 1 mg/l (Sewage Treatment Plant)

0.1 mg/l (Mew)

1 mg/l (Freshwater)

PNEC 1 mg/kg dwt (Bod)

· Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and

hygienic measures Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

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· Breathing equipment: Respiratory protection is required at inadequately ventilated

workplaces and during spray processing. Fresh air masks or combination filters A2-P2 are recommended for short-term work.

· Hand protection Conditionally suitable materials for protective gloves; EN 374-3:

Nitrile rubber - NBR: Thickness \geq 0.35mm.

Only suitable for splash protection. Only suitable for short-term exposure. In case of contamination, the protective gloves must be

changed immediately. Nitrile rubber, NBR

· Material of gloves

Penetration time of glove

material

The exact breakthrough time must be obtained from the protective

glove manufacturer and must be observed.

Eye/face protection
 Body protection:
 Tightly sealed safety glasses.
 Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Colour: Dark brown
 Smell: Characteristic
 Melting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range 190 °C (CAS: 9016-87-9

diphenylmethanediisocyanate, isomeres and

homologues)

· Lower and upper explosion limit

· Lower: <0.1 Vol % (CAS: 28553-12-0 diisononyl

phthalate) 0.2 Vol % 201 °C

• Flash point: 201 °C
• pH Not applicable.
Not determined.

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Viscosity:

· Upper:

Kinematic viscositydynamic at 20 °C:Not determined.375 mPas

Solubility

· Water: Not miscible or difficult to mix

• Steam pressure at 25 °C: 0 h P a (CAS: 9016-87-9

diphenylmethanediisocyanate,isomeres and

homologues)

· Density and/or relative density

· Density at 20 °C 1.13 g/cm³

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

· Self-inflammability: Product is not selfigniting.

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Explosive properties:	Product is not explosive.
Information with regard to physical haza classes	ard
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
· Substances and mixtures, which emit	
flammable gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions Reacts with amines

10.4 Conditions to avoid
 10.5 Incompatible materials:
 No further relevant information available.

10.6 Hazardous

decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

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

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

· LD/LC50 values that are relevant for classification:

CAS: 9	016-87-9 di	iphenylmethanediisocyanate,isomeres and homologues
Oral	LD50	>10000 mg/kg (Rat)

 Oral
 LD50
 >10000 mg/kg (Rat)

 Dermal
 LD50
 >5000 mg/kg (Rab)

 Inhalative
 LC50/4 h
 ~450 mg/l (Rat)

CAS: 28553-12-0 diisononyl phthalate

Oral LD50 10000 mg/kg (rat)

Skin corrosion/irritation Causes skin irritation.

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· Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin

sensitisation May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause an allergic skin reaction.

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Suspected of causing cancer.

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

· **STOT-single exposure** May cause respiratory irritation.

· STOT-repeated exposure May cause damage to organs through prolonged or repeated

exposure.

· Aspiration hazard 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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 28553-12-0 diisononyl phthalate

EC50/72h | 88 mg/l (algae)

LC50/96h | 102 mg/l (Danio rerio) EC50/48h | 74 mg/l (Daphnia magna)

NOEC 101 mg/l (Daphnia magna)

· 12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative

potential
 12.4 Mobility in soil
 No further relevant information available.
 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: Do not allow undiluted product or large quantities of it to reach

ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

• Recommendation Must not be disposed of together with household garbage. Do not

allow product to reach sewage system.

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· Uncleaned packagings:

Recommendation: Empty contaminated packagings thoroughly. They can be recycled

after thorough and proper cleaning.

14.1 UN number or ID number	
ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk accordi	ng to
IMO instruments	Not applicable.

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/ legislation specific for the

substance or mixture No further relevant information available.

· Poisons Act

Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other infor	motion	
SECTION 10: Other infor	mauon	
· Relevant phrases	H315 H317 H319 H332 H334 H335 H351 H373	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Contains isocyanates. May produce an allergic reaction.
Demontres est in accionar de ta		γ, ,
 Department issuing data specification sheet: 	Environ	ment protection department
· Abbreviations and acronyms:	Environment protection department. RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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 (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity — Category 4 Skin Irrit. 2: Skin corrosion/irritation — Category 2 Eye Irrit. 2: Serious eye damage/eye irritation — Category 1 Skin Sens. 1: Respiratory sensitisation — Category 1 Skin Sens. 1: Skin sensitisation — Category 1 Carc. 2: Carcinogenicity — Category 2 STOT SE 3: Specific target organ toxicity (single exposure) — Category 3	
* Data a surre and to 41	STOT RE	2: Specific target organ toxicity (repeated exposure) – Category 2
* Data compared to the		