

1 Identification**Product identifier****Trade name:** Blasoclean AF**Article number:** 29170-04**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation:

For industrial use only

System cleaner

Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

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E-mail: singapore@blaser.com**Further information obtainable from:**

Product Safety Department

E-mail: sds@blaser.com**Emergency telephone number:**

For advice on chemical emergencies, spillages, fires or exposures: +65 3158 1074 (24h/7d)

2 Hazards identification**Classification of the substance or mixture:**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Label elements**GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).**Hazard pictograms**

GHS07

Signal word Warning**Hazard-determining components of labelling:**

Carboxylic acids neutralized with alkanolamines*

2-aminoethanol *

Dicyclohexylamine*

Benzotriazole, potassium salt*

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

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P280 Wear protective gloves / eye protection / face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P337+P313 If eye irritation persists: Get medical advice/attention.

Other hazards None**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterisation: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Declarable, or hazardous components:****CAS-no.**

	Carboxylic acids, neutralized with alkanolamines* Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	>5-<15%
	Carboxylic acids, neutralized with alkanolamines* Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<2%
	2-aminoethanol * Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	>1-6.9%
	Benzotriazole, potassium salt* Acute Tox. 4, H302; Eye Irrit. 2, H319	>1-4.9%
CAS: 102-71-6 EINECS: 203-049-8	Triethanolamine	>1-4.9%
	Dicyclohexylamine* Acute Tox. 3, H301; Acute Tox. 3, H311; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319	>1-2.9%
CAS: 2634-33-5 EINECS: 220-120-9	1,2-benzisothiazol-3(2H)-one Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	<0.5%
CAS: 4299-07-4 ELINCS: 420-590-7	N-Butyl-1,2-benzisothiazolin-3-one Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1, H317	<0.1%

Additional information:

* Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4.

For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

Description of first aid measures**General information:** Immediately remove any clothing soiled by the product.**After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

Not applicable, as the concentrate is not volatile.

After skin contact: Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.

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No further relevant information available.

5 Fire-fighting measures**Extinguishing media****Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.**Additional information** Cool endangered receptacles with water spray.**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures** Not required.**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.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

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.

7 Handling and storage**Handling:****Precautions for safe handling**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

Information about fire - and explosion protection: No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:**

Do not store together with oxidising and acidic materials.

Further information about storage conditions:

Protect from heat and direct sunlight.

Optimal storage temperature between 0°C and 40°C.

Minimum shelf life: In closed original container, at least 24 months.

Specific end use(s) No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**Control parameters****Ingredients with limit values at the workplace:**General indication value for metalworking fluids (without obligation): 10 mg/m³.

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102-71-6 TriethanolamineWSH (Singapore) Long-term value: 5 mg/m³**Additional information:** The lists valid during the making were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection: Not required.**Protection of hands:**

Protective gloves

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

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

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

Material of gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

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.

The break through, among others, depending on material density and the type of glove and therefore must be determined in each individual case.

Gloves must be inspected prior to use. Replace when worn!

Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.

Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Eye protector with side protection (framed eyeglasses) EN 166.**Body protection:** Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Fluid
Colour:	Yellow
Odour:	Amine-like
Odour threshold:	Not determined.

pH-value: 8.8-9.6 @ 50 g/l H₂O (DIN 51369 / ASTM D1287)**Change in condition:**

Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	>100 °C (DIN 51751)
Drip point:	Not applicable
Pour point:	<0 °C (ISO 3016 / ASTM D97)

Flash point: >130 °C (ISO 2592 / ASTM D92)
Not applicable (contains water).**Flammability (solid, gas):** Not applicable.

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Ignition temperature:	Not applicable not determined
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits (@1013 mbar):	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	Not applicable.
Refractive index:	1.408 (@ 20 °C)
Density at 20 °C:	1.02 g/cm ³ (DIN 51757)
Vapour density	Not applicable.
	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Emulsifiable.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Kinematic at 40 °C:	9.3 mm ² /s (ISO 3104 / ASTM D445)
Other information:	safety relevant data, which has to be considered as product specifications.

10 Stability and reactivity

Reactivity None known if used as directed.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions Reacts with strong acids and oxidising agents.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

* pure substance

ATE (Acute Toxicity Estimates)

Oral	LD50	>2,632 mg/kg
Dermal	LD50	>3,642-4,372 mg/kg
Inhalative	LD50	>37.6 mg/L

Carboxylic acids neutralized with alkanolamines*

Oral	LD50	1,640 mg/kg
Dermal	LD50	3,253 mg/kg
Inhalative	LD50	42 mg/L

Benzotriazole, potassium salt*

Oral	LD50	395 mg/kg
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Dermal	LD50	2,941 mg/kg
Dicyclohexylamine*		
Oral	LD50	200 mg/kg (rat)
Dermal	LD50	200-316 mg/kg (rabbit)
Inhalative	LD50	>1.4 mg/L (rat)
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	LD50	1,193 mg/kg (rat)
Dermal	LD50	4,115 mg/kg (rat)

Primary irritant effect:**Skin corrosion/irritation** Causes skin irritation.**Serious eye damage/irritation** Irritating effect.**Respiratory or skin sensitisation** No sensitising effects known.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification

Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information

Toxicity**Aquatic toxicity:**

* pure substance

Dicyclohexylamine*		
LC50/96h	62 mg/l (Danio rerio)	
	12 mg/l (Oryzias latipes)	
EC50/48h	201 mg/L (Bak)	
	8 mg/L (Daphnia magna)	

Persistence and degradability No further relevant information available.**Behaviour in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Do not allow product to reach ground water, water course or sewage system.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

13 Disposal considerations

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.

14 Transport information

UN-Number	
ADR, ADN, IMDG, IATA	Not regulated

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UN proper shipping name ADR, ADN, IMDG, IATA	Not regulated
Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Not regulated
Packing group ADR, IMDG, IATA	Not regulated
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
IATA	IATA Dangerous Goods Regulation (DGR): latest edition
UN "Model Regulation":	Not regulated

15 Regulatory information

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

Poisons Act - Schedule 1

None of the ingredients are listed.

Poisons Act - Schedule 2, Group II

None of the ingredients are listed.

Health Products Act - First Schedule - Psychotropic Substances

None of the ingredients are listed.

GHS label elements CLP/GHS label elements are issued under section 2.

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

This preparation does not contain any SVHC ("Substances of Very High Concern")

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

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.

Regulations / approvals / listings:

Information on REACH registration numbers in section 3:

If no REACH registration numbers on substances in section 3 are mentioned, then they are exempt from the REACH registration requirements (e.g. polymers).

RoHS:

The product is compliant with European Directives 2015/863/EC, 2011/65/EC, 2002/95/EC, WEEE 2002/96/EC, 2003/11/EC, 2005/53/EC and RoHS.

The following substances ARE NOT contained:

Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PBDE) and / or polybrominated biphenyls (PBB), Bis(2-ethylhexyl)phthalate (DEHP), Benzylbutylphthalate (BBP), Dibutylphthalate (DBP),

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Diisobutylphthalate (DIBP);
lead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr⁶⁺-compounds.

IP346:

The contained refined mineral oils are exempt of labelling.

The content of polycyclic aromatic hydrocarbons (PCA) according to IP346 is < 3% (DMSO-extract).

Relevant phrases

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Department issuing SDS: Product Stewardship

Contact: Mrs. Wilson + Mr. Feller

Editor's notice:

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Abbreviations and acronyms:

RoHS: Restriction of Hazardous Substances
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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)
VOC: Volatile Organic Compounds (USA, EU)
ISO: International Organisation for Standardisation
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
ATE: Acute Toxicity Estimate
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1: Skin corrosion/irritation – Category 1
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
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

*** Data compared to the previous version altered.**

The asterisk (*) on the left side indicate the respective changes from the previous version.