

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

Article No.: FP-1804-25 Volmaton
Print date: 15.10.2018 Revision date: 10.10.2018 EN
Version: 2.5 Issue date: 10.10.2018 Page 1 / 10

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

1.1. product identifiers

Article No. (manufacturer/supplier): FP-1804-25
Identification of the substance or mixture Volmaton

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

Relevant identified uses:

Cooling lubricant

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Vollmer Werke Maschinenfabrik GmbH

Ehinger Straße 34

88400 Biberach

Telephone: +49 7351-571-0

Telefax: +49 7351-571-130

Dept. responsible for information:

Mr. Schlenz

+49 151-18813760

E-mail (competent person)

stefan.schlenz@mku-chemie.de

1.4. Emergency telephone number

Emergency telephone number +49 151-18813760

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315

skin corrosion/irritation

Causes skin irritation.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Warning

Hazard statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statements

P280

Wear protective gloves and eye/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.

P337 + P313

If eye irritation persists: Get medical advice/attention.

contains:

not applicable

Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description

Mixture of the below specified substances in not hazardous admixtures

Hazardous ingredients

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No.

REACH No.

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CAS No. INDEX No.	Chemical name classification: // Remark	Wt %
233-139-2 10043-35-3 005-007-00-2	01-2119486683-25-XXXX boric acid Repr. 1B H360	2,5 - 5
205-483-3 141-43-5 603-030-00-8	01-2119486455-28-XXXX 2-aminoethanol Acute Tox. 4 H302 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Corr. 1B H314 / STOT SE 3 H335 / Aquatic Chronic 3 H412	1 - 2,5
222-720-6 3586-55-8	01-2120733841-56-XXXX (ethylenedioxy)dimethanol Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318	1 - 2,5
202-394-1 95-14-7	01-2119979079-20-XXXX Benzotriazole Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Aquatic Chronic 2 H411	0,5 - 1

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available. *

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, Powder, Sand.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2. Special hazards arising from the substance or mixture

No risks worthy of mention.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Provide adequate ventilation. Wear suitable protective clothing.

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6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Keep away from heat sources, sparks and open flames. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Always close containers tightly after the removal of product. Take off immediately all contaminated clothing. Apply skin care products after work.

Precautions against fire and explosion:

No special measures are required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

2-aminoethanol

INDEX No. 603-030-00-8 / EC No. 205-483-3 / CAS No. 141-43-5

WEL, TWA: 2,5 mg/m³; 1 ppm

WEL, STEL: 7,6 mg/m³; 3 ppm

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

boric acid

INDEX No. 005-007-00-2 / EC No. 233-139-2 / CAS No. 10043-35-3

DNEL long-term dermal (systemic), Workers: 392 mg/kg

DNEL long-term inhalative (systemic), Workers: 8,3 mg/m³

2,2',2"-nitrioltriethanol

EC No. 203-049-8 / CAS No. 102-71-6

DNEL long-term dermal (systemic), Workers: 6,3 mg/kg bw/day

DNEL long-term inhalative (local), Workers: 5 mg/m³

DNEL long-term inhalative (systemic), Workers: 5 mg/m³

Benzotriazole

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EC No. 202-394-1 / CAS No. 95-14-7

DNEL long-term dermal (systemic), Workers: 1,08 mg/kg
DNEL long-term inhalative (systemic), Workers: 19 mg/m³

2-aminoethanol

INDEX No. 603-030-00-8 / EC No. 205-483-3 / CAS No. 141-43-5

DNEL long-term dermal (systemic), Workers: 1 mg/kg bw/day
DNEL long-term inhalative (local), Workers: 3,3 mg/m³

(ethylenedioxy)dimethanol

EC No. 222-720-6 / CAS No. 3586-55-8

DNEL acute dermal, short-term (systemic), Workers: 0,82 mg/kg bw/day
DNEL long-term dermal (local), Workers: 0,12 mg/kg bw/day
DNEL long-term dermal (systemic), Workers: 0,82 mg/kg bw/day
DNEL acute inhalative (local), Workers: 0,12 mg/m³
DNEL acute inhalative (systemic), Workers: 1,45 mg/m³
DNEL long-term inhalative (local), Workers: 0,12 mg/m³
DNEL long-term inhalative (systemic), Workers: 1,45 mg/m³

PNEC:

2,2',2"-nitrioltriethanol

EC No. 203-049-8 / CAS No. 102-71-6

PNEC aquatic, freshwater: 0,32 mg/l
PNEC aquatic, marine water: 0,032 mg/l
PNEC aquatic, intermittent release: 5,12 mg/l
PNEC sediment, freshwater: 1,7 mg/kg dw
PNEC sediment, marine water: 0,17 mg/kg dw
PNEC, soil: 0,151 mg/kg dw
PNEC sewage treatment plant (STP): 10 mg/l

Benzotriazole

EC No. 202-394-1 / CAS No. 95-14-7

PNEC aquatic, freshwater: 0,0194 mg/l
PNEC aquatic, marine water: 0,0194 mg/l
PNEC aquatic, intermittent release: 0,158 mg/l
PNEC sediment, freshwater: 3,75 x10⁻³ mg/kg
PNEC sediment, marine water: 3,75 x10⁻³ mg/kg
PNEC sewage treatment plant (STP): 39,4 mg/l

2-aminoethanol

INDEX No. 603-030-00-8 / EC No. 205-483-3 / CAS No. 141-43-5

PNEC aquatic, freshwater: 0,085 mg/l
PNEC aquatic, marine water: 0,0085 mg/l
PNEC aquatic, intermittent release: 0,028 mg/l
PNEC sediment, freshwater: 0,434 mg/kg dw
PNEC sediment, marine water: 0,0434 mg/kg dw
PNEC, soil: 0,0367 mg/kg
PNEC sewage treatment plant (STP): 100 mg/l

(ethylenedioxy)dimethanol

EC No. 222-720-6 / CAS No. 3586-55-8

PNEC aquatic, freshwater: 0,49 mg/l
PNEC aquatic, marine water: 0,049 mg/l
PNEC sediment, freshwater: 2,54 mg/kg dw
PNEC sediment, marine water: 0,254 mg/kg dw
PNEC, soil: 0,22 mg/kg dw
PNEC sewage treatment plant (STP): 1,7 mg/l

8.2. **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction.

Occupational exposure controls

Respiratory protection

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No special technical protective measures are necessary.

Hand protection

Because of the various influencing factors (e.g. temperature, mechanical impact), service life of the recommended chemical resistant gloves might in practice be shorter than the breakthrough time determined according to EN 374. If there is a risk of hand contact, wear liquid-tight protective gloves. Recommended glove articles: Material: nitrile - breakthrough time: 480 min; Material thickness: 0.40 mm; Test method: DIN EN 374. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear suitable protective clothing.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Wash hands before breaks and after work.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

*

Appearance:

Physical state: Liquid
Colour: light

Odour: mild

Odour threshold: not determined

pH at 20 °C: 9,7 / 10,0 Wt %
Method: DIN 51369 / Remark: in aqueous solution

Melting point/freezing point: not determined

Initial boiling point and boiling range: not determined

Flash point: not applicable

Evaporation rate: not applicable

Flammability (solid, gas):
burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Vapour pressure at 20 °C: not determined

Vapour density: not determined

Relative density:
Density at 15 °C: 1,03 g/cm³
Method: DIN 51757

Solubility(ies):

Water solubility (g/L) at 20 °C: miscible

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: not applicable

Decomposition temperature: not determined

Viscosity at 20 °C: 2,8 mm²/s
Method: DIN 51562

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

Solid content (%): 0 Wt %

solvent content:

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Organic solvents: 0 Wt %
Water: 0 Wt %

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 10.3.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

No risks worthy of mention.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, Nitrogen oxides (NOx).

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

No data on preparation itself available.

11.1. Information on toxicological effects

*

Acute toxicity

Benzotriazole

oral, LD50, Rat: 500 mg/kg

Method: OECD 423

Harmful if swallowed.

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

By analogy.

2-aminoethanol

oral, LD50, Rat: 1089 mg/kg

Harmful if swallowed.

dermal, LD50, Rabbit: 2460 - 2800 mg/kg

Harmful in contact with skin.

inhalative (vapours), LC50, Rat: > 1,487 mg/l (4 h)

Method: OECD 203

Harmful if inhaled.

(ethylenedioxy)dimethanol

oral, LD50, Rat: 200 - 2000 mg/kg

Method: OECD 423

Harmful if swallowed.

skin corrosion/irritation; Serious eye damage/eye irritation

Benzotriazole

Skin, Rabbit (4 h)

Method: OECD 404

Not an irritant.

eyes, OECD 405, Rabbit

Causes serious eye irritation.

2-aminoethanol

Skin, Rabbit (4 h)

Method: OECD 404

Causes severe skin burns and eye damage.; Symptoms may occur after a certain delay.

eyes, Rabbit

Method: OECD 405

Causes serious eye damage.

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(ethylenedioxy)dimethanol
Skin, Rabbit (4 h)
Method: OECD 404
Causes skin irritation.
eyes, Rabbit
Method: OECD 405
Causes serious eye damage.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

boric acid
Reproductive toxicity
May damage fertility. May damage the unborn child.

Specific target organ toxicity

2-aminoethanol
Specific target organ toxicity (single exposure), Irritation:
May cause respiratory irritation.

Aspiration hazard

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

Practical experience/human evidence

Other observations:
Data apply to the main component.

Overall Assessment on CMR properties

EC No. CAS No.	Chemical name	Classification according to Regulation (EC) No 1272/2008 [CLP]
233-139-2 10043-35-3	boric acid	Repr. 1B

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP]
There are no data available on the preparation/mixture itself.
Do not allow to enter into surface water or drains.

12.1. Toxicity

Benzotriazole

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): > 100 mg/l (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia galeata: 15,8 mg/l 91 - 141 mg/l (48 h)
Method: OECD 202
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 75 mg/l (72 h)
Method: OECD 201

2-aminoethanol

Fish toxicity, LC50, Cyprinus carpio (Common Carp): 349 mg/l (96 h)
Method: Regulation (EC) No. 440/2008, Annex, C.1
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 65 mg/l (48 h)
Method: Regulation (EC) No. 440/2008, Annex, C.2
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,8 mg/l (72 h)
Method: OECD 201
Bacteria toxicity, EC10, Activated sludge: > 1000 mg/l (30 min)
Method: OECD 209
Algae toxicity, EC50, Pseudomonas putida: 110 mg/l (17 h)
Method: literature value

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Long-term Ecotoxicity

2-aminoethanol

Fish toxicity, NOEC, *Oryzias latipes* (Ricefish): 1,24 mg/l (41 d)

Method: OECD 210

Daphnia toxicity, NOEC, *Daphnia magna* (Big water flea): 0,85 mg/l (21 d)

Method: OECD 202

Harmful to aquatic life with long lasting effects.

Algae toxicity, NOEC, *Pseudokirchneriella subcapitata*: 1 mg/l (72 h)

Method: OECD 201

12.2. Persistence and degradability

boric acid

Biodegradation:

Inorganic product which is not eliminable from water through biological cleaning processes.

2,2',2''-nitrilotriethanol

Biodegradation, CO₂ formation in % of theoretical value: 100 % (5 d)

Readily biodegradable (according to OECD criteria).

Benzotriazole

Biodegradation, DOC reduction: 0,8 % (30 d)

Method: OECD 302A

Not readily biodegradable (according to OECD criteria)

2-aminoethanol

Biodegradation: > 90 % 0 - 100 % (21 d)

Method: OECD 301A

Readily biodegradable (according to OECD criteria).

Biochemical oxygen demand (BOD): 800 mg/g

(ethylenedioxy)dimethanol

Biodegradation, Oxygen balance: 71 % (28 d)

Method: OECD 301D

Readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

boric acid

Partition coefficient: n-octanol/water: -0,757

2-aminoethanol

Partition coefficient: n-octanol/water: -1,91

Bioaccumulation: not to be expected due to the low log Pow value

Bioconcentration factor (BCF)

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

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

120109 machining emulsions and solutions free of halogens

packaging

Recommendation

Non-contaminated packages may be recycled.

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SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

14.1. **UN number**
not applicable

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**
not applicable

14.4. **Packing group**
not applicable

14.5. **Environmental hazards**
Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6. **Special precautions for user**
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code -

Sea transport (IMDG)

EmS-No. not applicable

Air transport (ICAO-TI / IATA-DGR)

14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**
not applicable

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 0

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment** *

For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
233-139-2 10043-35-3	boric acid	01-2119486683-25-XXXX
205-483-3 141-43-5	2-aminoethanol	01-2119486455-28-XXXX
202-394-1 95-14-7	Benzotriazole	01-2119979079-20-XXXX

SECTION 16: Other information *

Full text of classification in section 3:

Repr. 1B / H360 Reproductive toxicity

May damage fertility. May damage the unborn child.

Acute Tox. 4 / H302 Acute toxicity (oral)

Harmful if swallowed.

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Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version