

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name/designation Flushing Fluid BP50

1.2 Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses****Sector of uses [SU]**

SU3 Industrial uses

Product categories [PC]

PC0 Other

1.3 Details of the supplier of the safety data sheet**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

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1.4 Emergency telephone number**Emergency telephone number**

+49 172 2535524

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

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

remark

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.2 Label elements

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

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients**3.1/3.2 Mixture related information****Hazardous ingredients**

2-ethylhexanoic acid

<0,2 %

CAS 149-57-5

EC 205-743-6

INDEX 607-230-00-6

Repr. 2, H361d

diethanolamine	<0,15 %
CAS 111-42-2	
EC 203-868-0	
INDEX 603-071-00-1	
Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / STOT RE 2, H373	
Triethanolamine	<0,85 %
CAS 102-71-6	
EC 203-049-8	
Benzotriazol	<0,1 %
CAS 95-14-7	
EC 202-394-1	
Acute Tox. 4, H302 / Acute Tox. 4, H332	

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

Provide fresh air.

Following skin contact

Wash immediately with:

Water and soap

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray

Extinguishing powder

Carbon dioxide (CO₂)

alcohol resistant foam

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide.

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures

Remove persons to safety. Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up

Sand

Kieselguhr

Universal binder

Sawdust

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Remove contaminated, saturated clothing immediately. Avoid contact with skin, eyes and clothes.

Protective measures

Advices on safe handling

Avoid:

Eye contact

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Materials to avoid

Do not store together with:

Acid

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place.

storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
111-42-2	2,2'-Iminodiethanol	[13] mg/m ³	[3] ppm	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list. Great Britain (UK)

LTV = long-term occupational exposure limit value
STV = short-term occupational exposure limit value

8.2 Exposure controls
Personal protection equipment
Eyeface protection
Suitable eye protection

Eye glasses

Skin protection
Skin protection
remark

Hand protection is not required

Respiratory protection
remark

Usually no personal respirative protection necessary.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance
Physical state

liquid

Colour

colourless

Odour

odourless

	parameter	Method - source - remark
pH	ca.7	

parameter		Method - source - remark
Melting point/freezing point	ca.0 °C	
Initial boiling point and boiling range	ca.100 °C	
Flash point (°C)	ca.207 °C	
Evaporation rate		No data available
Flammable solids		No data available
Flammable aerosols		No data available
Upper explosion limit (Vol-%)		No data available
Lower explosion limit (Vol-%)		No data available
Vapour pressure		No data available
Density	ca.1,006 g/cm ³	at °C: 20 °C
Vapour density		No data available
Fat solubility (g/L)		No data available
Water solubility (g/L)		completely miscible
Soluble (g/L) in		No data available
Partition coefficient: n-octanol/water		No data available
Auto-ignition temperature		No data available
Auto-ignition temperature		No data available
Decomposition temperature		No data available
Explosives		No data available
Oxidising gases		No data available
Oxidising liquids		No data available
Oxidising solids		No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials**Materials to avoid**

Acid

Oxidising agent

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute dermal toxicity****ingredient** Benzotriazol**Acute toxicity, dermal** >10000 mg/kg**Effective dose**

LD50:

Species:

Rabbit

ingredient Triethanolamine**Acute toxicity, dermal** >2000 mg/kg**Effective dose**

LD50:

Species:

Rabbit

ingredient 2-ethylhexanoic acid**Acute toxicity, dermal** >2000 mg/kg**Effective dose**

LD50:

Species:

Rabbit

Acute oral toxicity**ingredient** Benzotriazol**Acute toxicity, oral** 560 - 909 mg/kg**Effective dose**

LD50:

Species:

Rat

ingredient Triethanolamine**Acute toxicity, oral** >2000 mg/kg**Effective dose**

LD50:

Species:

Rat

ingredient 2-ethylhexanoic acid**Acute toxicity, oral** 3640 mg/kg

Effective dose

LD50:

Species:

Rat

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity****Acute (short-term) fish toxicity****ingredient** Benzotriazol**Acute (short-term) fish toxicity** >100 mg/l**Effective dose**

LC50:

Test durarion 96 h**species**

Brachydanio rerio (zebra-fish)

ingredient Triethanolamine**Acute (short-term) fish toxicity** 11,8 mg/l**Effective dose**

LC50:

Test durarion 96 h**species**

Pimephales promelas (fathead minnow)

ingredient 2-ethylhexanoic acid**Acute (short-term) fish toxicity** 180 mg/l**Effective dose**

LC50:

Test durarion 96 h**species**

Oncorhynchus mykiss (Rainbow trout)

Acute (short-term) toxicity to crustacea**ingredient** Benzotriazol**Acute (short-term) toxicity to crustacea** 91 - 141 mg/l**Test durarion** 48 h**species**

Daphnia magna (Big water flea)

ingredient Triethanolamine**Acute (short-term) toxicity to crustacea** 2038 mg/l**Effective dose**

EC50

Test durarion 24 h**species**

Daphnia magna (Big water flea)

ingredient 2-ethylhexanoic acid**Acute (short-term) toxicity to crustacea** 85,4 mg/l

Effective dose

EC50

Test duration 48 h**Acute (short-term) toxicity to aquatic algae and cyanobacteria****ingredient** Benzotriazol**Acute (short-term) toxicity to aquatic algae and cyanobacteria** 102 mg/l**Effective dose**

EC50

Test duration 72 h**species**

Scenedesmus subspicatus

ingredient Triethanolamine**Acute (short-term) toxicity to aquatic algae and cyanobacteria** 216 mg/l**Effective dose**

EC50

Test duration 72 h**species**

Scenedesmus subspicatus

ingredient 2-ethylhexanoic acid**Acute (short-term) toxicity to aquatic algae and cyanobacteria** 61 mg/l**Effective dose**

IC50:

Test duration 72 h**species**

Desmodesmus subspicatus.

12.2 Persistence and degradability**Biodegradation****remark**

The single components are biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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 data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste code packaging** 150102**Special monitoring requiring wastes:** No**Waste name**

plastic packaging

remark**Additional information**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name			
14.3 Class(es)			
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS			
14.6 Special precautions for user			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			

remark - Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.

remark - Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

remark - Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation****Authorisations and/or restrictions on use****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).

National regulations**Germany****Water hazard class (WGK)**

non-hazardous to water (nwg)

source

Classification according to VwVwS, Annex 4.

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information**Key literature references and sources for data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.