

SAFETY DATA SHEET

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

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

1.1. Product identifier

Trade name/designation:

Tornador Clean

Article No.:

87792x

UFI:

4W17-38VF-7C5Y-32GV

Additional information:

The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].

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

Use of the substance/mixture:

Reinigungsmittel

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Relevant identified uses:

Product Categories [PC]

PC 35: Washing and cleaning products

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Bendel Werkzeuge GmbH & Co.KG

Wilhelm-Schulze-Str.8-10

29549 Bad Bevensen

Telephone: (05821) 98970

Telefax: (05821) 989710

E-mail: info@bendel.de

1.4. Emergency telephone number

No data available

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 not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: —

Supplemental hazard information: —

Precautionary statements

P102

Keep out of reach of children.

Special rules for supplemental label elements for certain mixtures:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Additional information:

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

2.3. Other hazards

No data available

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Cleaning agent

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68698-61-3 EC No.: 272-090-1	disodium pentyl phosphate Eye Irrit. 2 (H319) Warning Specific concentration limit (SCL) Eye Irrit. 2; H319: 15% ≤ C < 100%	7 - 13 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

not relevant

In case of skin contact:

Subsequently wash off with: Water and soap.

After eye contact:

In case of eye contact Wash with plenty of water.

Following ingestion:

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

No special measures are necessary.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Excess water.. Water spray.

Unsuitable extinguishing media:

none

5.2. Special hazards arising from the substance or mixture

none

Hazardous combustion products:

none

5.3. Advice for firefighters

The product is not: Combustible Wear a self-contained breathing apparatus and chemical protective clothing.

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5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Remove persons to safety.

Protective equipment:

Wear protective gloves. Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Protective clothing. Personal protection equipment: see section 8

6.2. Environmental precautions

No special environmental measures are necessary. 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: Absorbing material, organic Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

No special handling advices are necessary. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special fire protection measures are necessary.

Measures to prevent aerosol and dust generation:

not applicable

Advices on general occupational hygiene

General health and safety measures. When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

No special measures are necessary.

Packaging materials:

none

Requirements for storage rooms and vessels:

No special measures are necessary.

Hints on storage assembly:

none

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

No special fire protection measures are necessary.

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7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No special measures are necessary.

8.2.2. Personal protection equipment



Eye/face protection:

none

Skin protection:

By long-term hand contact Gloves with long cuffs . Butyl caoutchouc (butyl rubber) In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

none

Thermal hazards:

Non-combustible liquids.

Other protection measures:

none

8.2.3. Environmental exposure controls

No special environmental measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: colourless

Odour: odourless

Odour threshold: not applicable

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	9.4	20 °C	① DIN 19261
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	100 °C		② literature value
Decomposition temperature	<i>not applicable</i>		
Flash point	<i>not applicable</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not applicable</i>		
Upper/lower flammability or explosive limits	<i>not applicable</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	1.14 g/cm ³	20 °C	① DIN 12791
Relative density	<i>not determined</i>		

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Parameter	Value	at °C	① Method ② Remark
Bulk density	<i>not applicable</i>		
Water solubility	0 - 100 %	20 °C	② literature value
Partition coefficient: n-octanol/water	<i>not applicable</i>		② Product/Substance is inorganic.
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>	40 °C	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No known symptoms to date. Risk of explosion if heated under confinement.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

none

10.4. Conditions to avoid

Temperature > 50°C

* 10.5. Incompatible materials

none

10.6. Hazardous decomposition products

none

SECTION 11: Toxicological information

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

Acute oral toxicity:

There are no data available on the preparation/mixture itself.

Acute dermal toxicity:

There are no data available on the preparation/mixture itself.

Acute inhalation toxicity:

There are no data available on the preparation/mixture itself.

Skin corrosion/irritation:

There are no data available on the preparation/mixture itself.

Serious eye damage/irritation:

There are no data available on the preparation/mixture itself.

Respiratory or skin sensitisation:

There are no data available on the preparation/mixture itself.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

There are no data available on the preparation/mixture itself.

STOT-repeated exposure:

There are no data available on the preparation/mixture itself.

Aspiration hazard:

There are no data available on the preparation/mixture itself.

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11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

There are no data available on the preparation/mixture itself.

Sediment toxicity:

not relevant

Terrestrial toxicity:

not relevant

Effects in sewage plants:

neutral

Assessment/classification:

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

Additional ecotoxicological information:

There are no data available on the preparation/mixture itself.

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
water CAS No.: 7732-18-5 EC No.: 231-791-2	not applicable	
disodium pentyl phosphate CAS No.: 68698-61-3 EC No.: 272-090-1	not applicable	

Abiotic degradation:

There are no data available on the preparation/mixture itself.

Biodegradation:

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

12.3. Bioaccumulative potential

Bioconcentration factor (BCF):

There are no data available on the preparation/mixture itself.

Partition coefficient: n-octanol/water:

not applicable

Accumulation / Evaluation:

Product/Substance is inorganic.

12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
water CAS No.: 7732-18-5 EC No.: 231-791-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
disodium pentyl phosphate CAS No.: 68698-61-3 EC No.: 272-090-1	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

none

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

non-hazardous waste

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

20 01 30	detergents other than those mentioned in 20 01 29
20 03 01	mixed municipal waste

Waste code packaging

20 01 39	plastics
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Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Non-contaminated packages may be recycled. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

none

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

All ingredients of this mixture are (pre)registered according to REACH regulation.

Other regulations (EU):

VOC-value 0 (0%)

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15.1.2. National regulations

 [DE] National regulations

Restrictions of occupation

none

Störfallverordnung

for substances contained in the product:

Not subject to StörfallVO.

Technische Anleitung Luft (TA-Luft)

Klasse 1:

Not subject to TA-Luft.

Water hazard class

WGK:

1 - schwach wassergefährdend

Description:

slightly hazardous to water

Remark:

Documentation of self-classification carried out according to VwVwS, 3a.

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen)

Relevante arbeitsmedizinische Vorschriften

not relevant

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

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

4. Revision

16.2. Abbreviations and acronyms

For abbreviations and acronyms, see table on the eSDScom website

16.3. Key literature references and sources for data

ECHA

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H319	Causes serious eye irritation.

16.6. Training advice

No special measures are necessary.

16.7. Additional information

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.

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* Data changed compared with the previous version