

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Antox 75 E Extra

Version: 2.1

Revision Date 24.11.2014

Print Date 08.01.2018

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

1.1 Product identifier

Trade name : Antox 75 E Extra

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

Use of the Sub- : Treatment of metal surfaces.
stance/Mixture

Recommended restrictions : None known.
on use

1.3 Details of the supplier of the safety data sheet

Company : Chemetall GmbH
Aarauerstrasse 51
CH-5200 Brugg

Contact person : franz.braun@chemetall.com
Telephone : ++41(0)56 616 90 30
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Contact person product safety
Telephone : +49(0)6971652956
E-mail address : msds.de@chemetall.com

1.4 Emergency telephone number

Schweiz / Suisse / Switzer- : Tox Info Suisse
land TEL. ++41(0) 44 251 51 51
TEL. 145 (24 H)
www.toxinfo.ch info@toxinfo.ch

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H302 + H312 Harmful if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**
P260 Do not breathe vapours, aerosols.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 7664-38-2 Orthophosphoric acid
- 127-68-4 Sodium 3-nitrobenzenesulphonate

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- 7664-39-3 Hydrofluoric Acid

2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 MixturesChemical nature : Aqueous solution
inorganic acids**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Orthophosphoric acid	7664-38-2 231-633-2 01-2119485924-24	Met. Corr. 1; H290 Skin Corr. 1B; H314 Note B	>= 25 - < 50
Sodium 3-nitrobenzenesulphonate	127-68-4 204-857-3 01-2119965131-44	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 3 - < 10
Hydrofluoric Acid	7664-39-3 231-634-8 01-2119458860-33	Acute Tox. 2; H330 Acute Tox. 1; H310 Acute Tox. 2; H300 Skin Corr. 1A; H314 Note B	>= 0.1 - < 1

Substances with a workplace exposure limit :

Propane-1,2-diol	57-55-6	Not a hazardous sub-	>= 1 - < 2.5
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	200-338-0 01-2119456809-23	stance or mixture according to Regula- tion (EC) No. 1272/2008.	
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For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off contaminated clothing and shoes immediately.
First Aid responders should pay attention to self-protection
and use the recommended protective clothing
Move out of dangerous area.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water for at least 15
minutes.
Call a physician immediately.
First treatment with calcium gluconate paste.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
Call a physician immediately.
- If swallowed : Rinse mouth with water.
Immediately drink calcium solution (calcium tablets dissolved
in water).
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : corrosive effects
May cause an allergic skin reaction.
Harmful if swallowed or in contact with skin
Watch victim for several hours because of possible delayed
signs of poisoning.
If ingested, severe burns of the mouth and throat, as well as a
danger of perforation of the oesophagus and the stomach.

4.3 Indication of any immediate medical attention and special treatment needed

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Treatment : First treatment with calcium gluconate paste.
Immediately drink calcium solution (calcium tablets dissolved in water).
For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Heating or fire can release toxic gas.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

See chapter 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Avoid contact with skin and eyes.
Ensure that eye flushing systems and safety showers are located close to the working place.
Do not breathe vapours, aerosols.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a place accessible by authorized persons only.
Store in original container.
Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions : Avoid contact with metals.
Protect from frost, heat and sunlight.

Advice on common storage : Incompatible with bases.

Storage temperature : 0 - 40 °C

7.3 Specific end use(s)

Specific use(s) : Treatment of metal surfaces.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value	Control parameters	Update	Basis
Orthophos-	7664-38-2	TWA	1 mg/m ³	2000-06-16	2000/39/EC

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phoric acid					
Further information	:	Indicative			
		STEL	2 mg/m3	2000-06-16	2000/39/EC
Further information	:	Indicative			
		TWA	1 mg/m3	2005-04-06	GB EH40
		STEL	2 mg/m3	2005-04-06	GB EH40
Propane-1,2-diol	57-55-6	TWA	10 mg/m3 particles	2011-12-01	GB EH40
Further information	:	2: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
		TWA	150 ppm Total vapour and particles 474 mg/m3 Total vapour and particles	2011-12-01	GB EH40
Further information	:	2: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
Hydrofluoric Acid	7664-39-3	TWA	1.8 ppm 1.5 mg/m3	2009-12-19	2000/39/EC
Further information	:	Indicative			
		STEL	3 ppm 2.5 mg/m3	2009-12-19	2000/39/EC
Further information	:	Indicative			
		TWA	1.8 ppm Fluorine	2005-04-06	GB EH40

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			1.5 mg/m3 Fluorine		
Further information	:	Fluorine			
		STEL	3 ppm Fluorine 2.5 mg/m3 Fluorine	2005-04-06	GB EH40
Further information	:	Fluorine			

DNEL/DMEL

Orthophosphoric acid : End Use: Workers DNEL
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 2.92 mg/m3

Sodium 3-nitrobenzenesulphonate : End Use: Workers DNEL
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 5 mg/m3

End Use: Workers DNEL
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 97.6 mg/kg bw/day

Hydrofluoric Acid : End Use: Workers DNEL
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 1.5 mg/m3

End Use: Workers DNEL
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 0.0015 mg/m3

Propane-1,2-diol : End Use: Workers DNEL
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 168 mg/m3

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End Use: Workers DNEL
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 10 mg/m³

PNEC

Sodium 3-nitrobenzenesulphonate

: Fresh water
Value: 0.5 mg/l

Marine water
Value: 0.05 mg/l

Intermittent use/release
Value: 5 mg/l

Sewage treatment plant
Value: 10000 mg/l

Fresh water sediment
Value: 2.58 mg/kg dry weight (d.w.)

Marine sediment
Value: 0.258 mg/kg dry weight (d.w.)

Soil
Value: 0.222 mg/kg dry weight (d.w.)

Propane-1,2-diol

: Fresh water
Value: 260 mg/l

Marine water
Value: 26 mg/l

Sewage treatment plant
Value: 20000 mg/l

Fresh water sediment
Value: 572 mg/kg dry weight (d.w.)

Marine sediment
Value: 57.2 mg/kg dry weight (d.w.)

Soil
Value: 50 mg/kg dry weight (d.w.)

8.2 Exposure controls

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Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection : For short-time or low exposures in well ventilated areas, use a half mask in combination with a filter.
ABEK-filter

: When working in narrow, closed and low-oxygen areas (e.g. containers) use self-contained breathing apparatus (EN 133).

Hand protection

: Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

: Fluorinated rubber
Break through time: 480 min
Glove thickness: 0.4 mm

: Nitrile rubber
Break through time: 480 min
Glove thickness: 0.35 mm

: butyl-rubber
Break through time: 480 min
Glove thickness: 0.5 mm

: Natural Rubber
Break through time: 480 min
Glove thickness: 0.5 mm

: PVC
Break through time: 480 min
Glove thickness: 0.5 mm

: Polychloroprene

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Break through time: 480 min
Glove thickness: 0.5 mm

- Eye protection : Tightly fitting safety goggles
Eye protection (EN 166)
- Skin and body protection : Chemical resistant protective clothing according to DIN EN 13034 (Type 6)
- Hygiene measures : Take off contaminated clothing and shoes immediately.
Avoid contact with the skin and the eyes.
Keep away from food, drink and animal feedingstuffs.
Wash hands before breaks and immediately after handling the product.
- Protective measures : Always have on hand a first-aid kit, together with proper instructions.
Ensure that eye flushing systems and safety showers are located close to the working place.
Handle in accordance with good industrial hygiene and safety practice.
- Environmental exposure controls**
- General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : colourless
- Odour : odourless
- Flash point : Not applicable
- Ignition temperature : Not applicable
- Auto-ignition temperature : not auto-flammable
- pH : < 2

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at
20 °C
(undiluted)

Melting point/range : not determined

Boiling point/boiling range : No data available

Vapour pressure : 23 hPa
at 20 °C

Density : 1.15 - 1.21 g/cm³

Water solubility : completely miscible

Viscosity, dynamic : not determined

9.2 Other information

Corrosion : Corrosive to metals

Explosivity : Gives off hydrogen by reaction with metals.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Gives off hydrogen by reaction with metals.

10.4 Conditions to avoid

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Conditions to avoid : To avoid thermal decomposition, do not overheat.
Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Incompatible with bases.

10.6 Hazardous decomposition products

Risk of decomposition. : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate: 1,250 mg/kg
Method: Calculation method

Acute oral toxicity
Orthophosphoric acid : LD50: 2,600 mg/kg
Species: Rat
Method: OECD Test Guideline 423

Sodium 3-
nitrobenzenesulphonate : LD50: > 5,000 mg/kg
Species: Rat

Hydrofluoric Acid : Acute toxicity estimate: 5 mg/kg
Method: Converted acute toxicity point estimate

Propane-1,2-diol : LD50: 20,000 mg/kg
Species: Rat

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
vapour
Exposure time: 4 h
Method: Calculation method

Acute inhalation toxicity
Sodium 3-
nitrobenzenesulphonate : LC50: > 5 mg/l
Exposure time: 4 h

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Species: Rat

Acute dermal toxicity : Acute toxicity estimate: 1,250 mg/kg
Method: Calculation method

Acute dermal toxicity
Hydrofluoric Acid : Acute toxicity estimate: 5 mg/kg
Method: Converted acute toxicity point estimate

Propane-1,2-diol : LD50: 20,800 mg/kg
Species: Rabbit

Skin corrosion/irritation

Skin irritation : Causes severe burns.

Serious eye damage/eye irritation

Eye irritation : Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation : May cause an allergic skin reaction.

Target Organ Systemic Toxicant - Repeated exposure

Orthophosphoric acid : Species: Rat
Application Route: Oral
NOAEL: <= 500 mg/kg bw/d
Method: OECD Test Guideline 422

Toxicology Assessment

Acute effects : If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach.,
Harmful if swallowed or in contact with skin

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicology studies for the product are not available.

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Toxicity to fish

Sodium 3-nitrobenzenesulphonate : LC50: > 100 mg/l
Exposure time: 96 h
Species: Leuciscus idus (Golden orfe)

Propane-1,2-diol : LC50: 40,613 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

Orthophosphoric acid : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Sodium 3-nitrobenzenesulphonate : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Propane-1,2-diol : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia (water flea)

Toxicity to algae

Orthophosphoric acid : EC50: > 100 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201

NOEC: 100 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201

Propane-1,2-diol : EC50: 24,200 mg/l
Exposure time: 72 h
Species: Selenastrum capricornutum (green algae)

Toxicity to bacteria

Sodium 3-nitrobenzenesulphonate : > 1,000 mg/l
Species: activated sludge

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12.2 Persistence and degradability

Biodegradability : No data available

12.3 Bioaccumulative potential

Bioaccumulation : Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility : No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Chemical Oxygen Demand (COD)
Sodium 3-nitrobenzenesulphonate : 990 mg/g

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

ADR

UN number : 3264
UN proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Ortho-phosphoric acid
Transport hazard class(es) : 8
Packing group : II
Classification Code : C1

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Hazard Identification Number : 80
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Maximum quantity : 30.00 KG
Labels : 8
Tunnel restriction code : (E)
Environmentally hazardous : no

IATA

UN number : 3264
Description of the goods : Corrosive liquid, acidic, inorganic, n.o.s. Orthophosphoric acid
Class : 8
Packing group : II
Labels : 8

IATA_C

Packing instruction (cargo aircraft) : 855
Packing instruction (LQ) : Y840
Maximum quantity : 30.00 L
Environmentally hazardous : no

IATA_P

Packing instruction (passenger aircraft) : 851
Packing instruction (LQ) : Y840
Maximum quantity : 1.00 L
Environmentally hazardous : no

IMDG

UN number : 3264
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Orthophosphoric acid
Class : 8
Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Marine pollutant : no

Acids
Clear of living quarters.

Acids
Clear of living quarters.

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RID

UN number : 3264
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC,
N.O.S.Orthophosphoric acid
Transport hazard class(es) : 8
Packing group : II
Classification Code : C1
Hazard Identification Number : 80
Labels : 8
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Maximum quantity : 30.00 KG

Environmentally hazardous : no

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Neither banned nor restricted

Water contaminating class (Germany) : WGK 1 slightly water endangering
VWVWS A4

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.
Regional or national implementations of GHS may not implement all hazard classes and categories.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for one or more substance(s) of the mixture.
The necessary safety - related information is stated in the first 16 sections.
For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

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H290	May be corrosive to metals.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H302 + H312	Harmful if swallowed or in contact with skin
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.

Full text of Notas referred to under section 3

Note B Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid .?.%". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.