

**ANT75E - 5 KG GB-FR-CA**

Version: 1.0

Revision Date 30.08.2012

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

**1.1 Product identifier**

Trade name : ANT75E - 5 KG GB-FR-CA

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

Use of the Sub-  
stance/Mixture : Cleaning agent for metal surfaces

**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  
Telefax : ++41(0)56 616 90 40  
  
Contact person product safety  
Telephone : +49(0)6971653381  
E-mail address : msds.de@chemetall.com

**1.4 Emergency telephone number**

Schweiz / Suisse / Switzerland	Canada
Tox Info Suisse	
TEL. ++41(0) 44 251 51 51	CANUTEC (24 H)
TEL. 145 (24 H)	TEL. (613)996-6666
www.toxinfo.ch info@toxinfo.ch	

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.

**Classification (67/548/EEC, 1999/45/EC)**

Corrosive R34: Causes burns.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

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

**Response:**  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 IF exposed or concerned:  
P310 Immediately call a POISON CENTER or doctor/ physician.

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

**Labelling according to EC Directives (1999/45/EC)**

Hazard pictograms :



Corrosive

R-phrases(s) : R34 Causes burns.

S-phrases(s) : S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S60 This material and its container must be disposed of as hazardous waste.

Hazardous components which must be listed on the label:

- 7664-38-2 Orthophosphoric acid

Special labelling of certain mixtures : Ingredients according to Regulation (EC) No.648/2004 on detergents:  
Non ionic surfactants < 5%

**2.3 Other hazards**

Classification "corrosive" due to the extreme pH value.

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

**3.1 Substances**

not applicable

**3.2 Mixtures**

Chemical nature : Preparation based on phosphoric acid

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Orthophosphoric acid	7664-38-2 231-633-2 01-2119485924-24-0007	C; R34  Nota B	Skin Corr. 1B; H314	>= 10 - < 25
Ethoxylated Secondary Alcohols (C11 - 15)	68131-40-8	Xn; R22  Xi; R41	Acute Tox. 4; H302  Eye Dam. 1; H318	>= 1 - < 2.5

For the full text of the R-phrases mentioned in this Section, see Section 16.  
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.

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General advice : Take off contaminated clothing and shoes immediately.  
First-aid crew: Ensure self-protection.  
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.
- 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 give large quantities of water to drink.  
Do NOT induce vomiting.  
Call a physician immediately.

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

- Symptoms : Erythema  
Blistering  
Pain
- Risks : corrosive effects  
If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach.

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

- Treatment : Treat symptomatically.  
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

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**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.

**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.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Wear personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

**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).  
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.  
Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.  
Avoid contact with skin and eyes.

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 : Store in a place accessible by authorized persons only.

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areas and containers                      Store at room temperature in the original container.  
 Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions                      : Avoid contact with metals.

Storage temperature                      : 0 - 40 °C

**7.3 Specific end use(s)**

Specific use(s)                      : Cleaning agent for metal surfaces

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Orthophosphoric acid	7664-38-2	TWA	1 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information	: Indicative				
	7664-38-2	STEL	2 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information	: Indicative				
	7664-38-2	TWA	1 mg/m <sup>3</sup>	2005-04-06	GB EH40
	7664-38-2	STEL	2 mg/m <sup>3</sup>	2005-04-06	GB EH40

**DNEL/DMEL**  
 Orthophosphoric acid                      : End Use: Workers, DNEL  
 Exposure routes: Inhalation  
 Exposure time: 8 h  
 Value: 2.92 mg/m<sup>3</sup>

**8.2 Exposure controls**

**Engineering measures**

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Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.  
Recommended Filter type:  
B-P2
- Hand protection : Neoprene  
Protective gloves complying with EN 374.  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
Protective gloves have to be replaced at the first sign of deterioration.
- 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 : Handle in accordance with good industrial hygiene and safety practice.  
Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**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 to yellowish
- Odour : odourless
- Flash point : not applicable

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Ignition temperature	: not auto-flammable
Flammability (solid, gas)	: Non Combustible Liquids
Auto-ignition temperature	: not auto-flammable
pH	: < 2 at 20 °C (undiluted)
Melting point/range	: not determined
Boiling point/boiling range	: no data available
Vapour pressure	: 23 hPa at 20 °C
Density	: 1.10 - 1.16 g/cm <sup>3</sup> Method: DIN 51757
Water solubility	: completely miscible
Viscosity, dynamic	: not determined

**9.2 Other information**

Explosivity	: no explosion risk
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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions	: Gives off hydrogen by reaction with metals.
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**10.4 Conditions to avoid**

Conditions to avoid : To avoid thermal decomposition, do not overheat.

**10.5 Incompatible materials**

Materials to avoid : Incompatible with bases.

**10.6 Hazardous decomposition products**

Risk of decomposition. : No decomposition if used as directed.  
In case of fire hazardous decomposition products may be produced such as:  
Oxides of phosphorus

Thermal 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: > 2,000 mg/kg  
Method: Calculation method

**Skin corrosion/irritation**

Skin irritation : Causes severe burns.

**Serious eye damage/eye irritation**

Eye irritation : Causes serious eye damage.

**Respiratory or skin sensitization**

Sensitisation : no data available

**Further information**

: If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach.

**SECTION 12: Ecological information**

**12.1 Toxicity**

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Ecotoxicology studies for the product are not available.

**12.2 Persistence and degradability**

Biodegradability : The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents

**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 mixture does not contain substances considered to be persistent, bioaccumulating and toxic (PBT)., This mixture does not contain substances considered to be very persistent and very bioaccumulating (vPvB).

**12.6 Other adverse effects**

Additional ecological information : slightly water endangering  
: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product : Dispose of as hazardous waste in compliance with local and national regulations.  
Contaminated packaging : Dispose of as hazardous waste in compliance with local and national regulations.  
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 : 1805

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UN proper shipping name : PHOSPHORIC ACID SOLUTION  
Transport hazard class(es) : 8  
Packing group : III  
Classification Code : C1  
Hazard identification No : 80  
Limited Quantity (LQ) Inner : 5.00 L  
Packaging  
Maximum quantity : 30.00 KG  
Labels : 8  
Tunnel restriction code : (E)  
Environmentally hazardous : no

**IATA**

UN number : 1805  
Description of the goods : Phosphoric acid, solution  
Class : 8  
Packing group : III  
Labels : 8

**IATA\_C**

Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
Maximum quantity : 60.00 L  
Environmentally hazardous : no

**IATA\_P**

Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841  
Maximum quantity : 5.00 L  
Environmentally hazardous : no

**IMDG**

UN number : 1805  
Description of the goods : PHOSPHORIC ACID SOLUTION  
Class : 8  
Packing group : III  
Labels : 8  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
Marine Pollutant : no

**RID**

UN number : 1805  
Description of the goods : PHOSPHORIC ACID SOLUTION  
Transport hazard class(es) : 8  
Packing group : III  
Classification Code : C1  
Hazard identification No : 80

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Labels : 8  
Limited Quantity (LQ) Inner : 5.00 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**

Candidate List of Substances : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).  
of Very High Concern for  
Authorisation

Water contaminating class : WGK 1 slightly water endangering  
(Germany) 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 R-phrases referred to under sections 2 and 3**

R22 Harmful if swallowed.  
R34 Causes burns.  
R41 Risk of serious damage to eyes.

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

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

**Full text of Notas referred to under section 3**

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**Nota B**

Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different labelling since the hazards vary at different concentrations. In Annex I entries with Note B have a general designation of the following type: nitric acid ....%. In this case the manufacturer or any other person who markets such a substance in aqueous solution must state the percentage concentration of the solution on the label. Example: nitric acid 45 %. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis. The use of additional data (e.g. specific gravity, degrees Baumé) or descriptive phrases (e.g. fuming or glacial) is permissible.

**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.