

Gardacid X

Version: 1 . 13.06.2003

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

English

Product information

Commercial Product Name Gardacid X

Recommended use:

Acid pickling agent for metal surfaces.

Company: Chemetall plc
Denbigh Road
Bletchley Milton Keynes MK1 1PB

Lead Organisation:

Telephone: 01908 649333

Telefax: 01908 373939

Emergency telephone number: 01908 649333

Contact person:

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	CAS-No. EINECS-No. ELINCS-No.	Symbol(s):	R- phrase(s)	Concentration
Orthophosphoric acid	7664-38-2 231-633-2	C	R34	25.00 - 50.00 %
Nitric Acid	7697-37-2 231-714-2	O, C	R 8, R35	2.50 - 10.00 %

3. HAZARDS IDENTIFICATION**Risk advice to man and the environment****Indication of danger:** C Corrosive

R34 Causes burns.

4. FIRST AID MEASURES**General advice:**

Take off contaminated clothing and shoes immediately.

Eye contact:

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin contact:

Wash off immediately with soap and plenty of water.

Inhalation:

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Move to fresh air. If symptoms persist, call a physician.

Ingestion:

Clean mouth with water and drink afterwards plenty of water. Call a physician immediately.

5. FIRE-FIGHTING MEASURES**Specific hazards during fire fighting:**

Combustion may cause: nitrogen oxides (NO_x) oxides of phosphorus

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus.

Suitable extinguishing media:

carbon dioxide (CO₂), dry powder, water spray, alcohol-resistant foam

Further information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Use personal protective equipment.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Soak up with liquid binder (sand, kieselguhr, acid binder, universal binder). Take up mechanically and collect in suitable container for disposal. Ensure adequate ventilation.

7. HANDLING AND STORAGE**Handling****Safe handling advice:**

Have eye wash bottle or eye rinse ready at the work place. Avoid contact with eyes. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion:

No special protective measures against fire required

Storage**Requirements for storage areas and containers:**

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

Further information:

Avoid contact with metals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters****Orthophosphoric acid 7664-38-2**

	Value	Update	Basis
STEL	2.00 mg/m ³	2001	EH40 OES
TWA	1.00 mg/m ³	05 2001	EU ELV
STEL	2.00 mg/m ³	05 2001	EU ELV

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Nitric Acid 7697-37-2

	Value	Update	Basis
TWA	5.20 mg/m ³ 2.00 ppm	2001	EH40 OES
STEL	10.00 mg/m ³ 4.00 ppm	2001	EH40 OES

Personal protective equipment**Respiratory protection:**

Not required; except in case of aerosol formation.

Hand protection:

Neoprene gloves

Eye protection:

tightly fitting safety goggles

Skin and body protection:

protective suit

Hygiene measures:

Avoid contact with the skin and the eyes. Keep away from food, drink and animal feedingstuffs. Take off contaminated clothing and shoes immediately. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form: liquid
 Colour: colourless
 Odour: none

Change in physical state

Melting point/range: < -5 °C
 Flash point: not applicable
 Density: 1.35 g/cm³
 Water solubility: completely miscible
 pH: ca.1
 at: 100 g/l

10. STABILITY AND REACTIVITY**Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Materials to avoid

Contact with organic substances or other reducing agents can form mixed nitrous gases (toxic). Incompatible with bases.

Hazardous decomposition productsnitrogen oxides (NO_x)**Hazardous reactions:**

Gives off hydrogen by reaction with metals.

Thermal decomposition:

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> 320 °C

11. TOXICOLOGICAL INFORMATION

Skin irritation:

Causes burns.

Eye irritation:

Causes burns.

Sensitization:

No sensitising effects are known.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Further information:

Do not flush into surface water or sanitary sewer system. slightly water endangering

13. DISPOSAL CONSIDERATIONS

Waste key for the unused product:

110105 acidic pickling solutions

Product:

Dispose of as special waste in compliance with local and national regulations

Contaminated packaging:

Dispose of as special waste in compliance with local and national regulations

14. TRANSPORT INFORMATION

Regulation : ADR

UN/ID No.: 3264

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., Orthophosphoric acid,
Nitric Acid

Packaging group: II

Class: 8

Regulation : RID

UN/ID No.: 3264

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., Orthophosphoric acid,
Nitric Acid

Packaging group: II

Class: 8

Regulation : IMDG

UN/ID No.: 3264

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Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., Orthophosphoric acid,
Nitric Acid

Packaging group: II

Class: 8

EmS: F-A S-B

Regulation : IATA_C

UN/ID No.: 3264

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., Orthophosphoric acid,
Nitric Acid

Packaging group: II

Class: 8

Regulation : IATA_P

UN/ID No.: 3264

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., Orthophosphoric acid,
Nitric Acid

Packaging group: II

Class: 8

15. REGULATORY INFORMATION**Hazardous components which must be listed on the label:**

- Orthophosphoric acid
- Nitric Acid

Labelling:	C	Corrosive
R-phrase(s):	R34	Causes burns.
S-phrase(s):	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S27	Take off immediately all contaminated clothing.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
	S60	This material and its container must be disposed of as hazardous waste.

Other regulations:

The product is classified and labelled in accordance with EC directives or respective national laws.

16. OTHER INFORMATION**Text of R phrases mentioned in Section 2+3**

R34 Causes burns.

R8 Contact with combustible material may cause fire.

R35 Causes severe burns.

R34 Causes burns.

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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.