

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Gardobond-Additive H 7262

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

Use of the Sub-
stance/Mixture : Raw material for chemical industry.

1.3 Details of the supplier of the safety data sheet

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

Lead Organisation :
Contact person :
Telephone : 01908 649333
Telefax : 01908 373939

Product safety :
Telephone : +49 (0)69 7165 3252
E-mail address : msds.de@chemetall.com

1.4 Emergency telephone number

Emergency telephone
number : 01908 649333

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)

Hazard pictograms :



Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

Signal word	:	Danger	
Hazard statements	:	H314	Causes severe skin burns and eye damage.
Precautionary statements	:	Prevention: P280 P262 Response: P305 + P351 + P338 P312 Disposal: P501	Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not get in eyes, on skin, or on clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician if you feel unwell. Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 16872-11-0 Tetrafluoroboric acid

Labelling according to EC Directives (67/548/EEC)

Hazard pictograms

:



Corrosive

R-phrases(s)	:	R34	Causes burns.
S-phrases(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.
		S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous components which must be listed on the label:

- 16872-11-0 Tetrafluoroboric acid

2.3 Other hazards

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

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

3. Composition/information on ingredients

3.1 Substances

Identification: Gardobond-Additive H 7262

3.2 Mixtures

Chemical nature : inorganic acids

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Tetrafluoroboric acid	16872-11-0 240-898-3	C; R34 Nota B	Skin Corr. 1B; H314	>= 50 - < 65

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.

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 : Provide fresh air.
If unconscious place in recovery position and seek medical advice.
Consult a physician.
- In case of skin contact : First treatment with calcium gluconate paste.
Calcium gluconate solution.
Cover wound with sterile dressing.
Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids.
Protect unharmed eye.
Call a physician immediately.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Call a physician immediately.
Stomach perforation

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Erythema Blistering Pain
Risks	: corrosive effects

4.3 Indication of immediate medical attention and special treatment needed

Treatment	: Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.
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5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting	: May form toxic gases on heating or in case of fire. Hydrogen fluoride
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5.3 Advice for firefighters

Special protective equipment for fire-fighters	: Self-contained breathing apparatus (EN 133)
Further information	: Cool containers / tanks with water spray. Risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Ensure adequate ventilation. Wear personal protective equipment. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Do not breathe gas/fumes/vapour/spray. Wear respiratory protection.
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6.2 Environmental precautions

Environmental precautions	: Do not flush into surface water or sanitary sewer system.
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Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

Inform the relevant authorities if it enters sewers, aquatic environment or soil.
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation.
Soak up with liquid binder (sand, kieselguhr, acid binder, universal binder).
Use neutralizing agents.
Sweep up and shovel into suitable containers for disposal.
Adequate disposal

6.4 Reference to other sections

See chapter 8 and 13

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Handle and open container with care.
Avoid formation of aerosol.
Avoid inhalation of vapour or mist.
Do not inhale aerosol.
Avoid contact with skin and eyes.
When diluting, always add the product to water. Never add water to the product.

Advice on protection against fire and explosion : No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.
Keep in a cool place.

Further information on storage conditions : Avoid contact with metals.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.
Incompatible with oxidizing agents.

7.3 Specific end uses

Specific use(s) : Raw material for chemical industry.

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Tetra-fluoroboric acid	16872-11-0	TWA	2.5 mg/m ³	2000-06-16	2000/39/EC
Further information	: Indicative				

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection : For short-time or low exposures, use breathing apparatus with a filter.
For intensive or prolonged exposure, use a self-contained breathing apparatus.

Hand protection : Viton (R)
Glove thickness: 0.7 mm
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
The exact break through time can be obtained from the protective glove producer and this has to be observed.
Gloves must be inspected prior to use.

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 : Keep away from food, drink and animal feedingstuffs.
Take off contaminated clothing and shoes immediately.
When using do not eat, drink or smoke.
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin and eyes.
Wash hands before breaks and at the end of workday.
Use protective skin cream before handling the product.

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

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.
Inform the relevant authorities if it enters sewers, aquatic environment or soil.
Suppress (knock down) gases/vapours/mists with a water spray jet.

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
Lower explosion limit	: no explosion risk
Autoignition temperature	: not auto-flammable
pH	: < 2 at 20 °C (undiluted)
Melting point/range	: not determined
Boiling point/boiling range	: 130 °C at 1,013 hPa
Vapour pressure	: no data available

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

Density : 1.4 g/cm³
at 20 °C

Water solubility : completely miscible

9.2 Other information

Explosivity : no explosion risk

10. Stability and reactivity

10.1 Reactivity

Potential for exothermic hazard, Reacts violently with water.

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

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

10.5 Incompatible materials

Materials to avoid : Incompatible with bases.
Metals
Strong oxidizing agents

10.6 Hazardous decomposition products

Risk of decomposition. : Hydrogen fluoride

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : no data available

Skin corrosion/irritation

Skin irritation : Causes burns.

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

Serious eye damage/eye irritation

Eye irritation : Causes burns.

Respiratory or skin sensitization

Sensitisation : No sensitising effects are known.

Human experience

: If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach., Chronic exposure may cause permanent damage of health.

12. Ecological information

12.1 Toxicity

Toxicity to fish : LC50: 2,600 mg/l
Exposure time: 96 h
Species: Danio rerio (zebra fish)

12.2 Persistence and degradability

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Additional ecological information : slightly water endangering

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

: Do not flush into surface water or sanitary sewer system.

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.

14. Transport information

ADR

UN number : 1775
UN proper shipping name : FLUOROBORIC ACID
Transport hazard class(es) : 8
Packing group : II
Classification Code : C1
Hazard identification No : 80
Packing instruction (LQ) : LQ22
Labels : 8
Tunnel restriction code : (E),

IATA

UN number : 1775
Description of the goods : FLUOROBORIC ACID
Class : 8
Packing group : II
Labels : 8

Packing instruction (cargo aircraft) : 813
Environmentally hazardous : no

Packing instruction (passenger aircraft) : 809
Environmentally hazardous : no

IMDG

UN number : 1775
Description of the goods : FLUOROBORIC ACID
Class : 8

Gardobond-Additive H 7262

Version 2.0

Revision Date 12.10.2010

Print Date 04.07.2014

Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

RID

UN number : 1775
Description of the goods : FLUOROBORIC ACID
Transport hazard class(es) : 8
Packing group : II
Classification Code : C1
Hazard identification No : 80
Labels : 8
Packing instruction (LQ) : LQ24
Environmentally hazardous : no

15. Regulatory information

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

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

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R34 Causes burns.

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

H314 Causes severe skin burns and eye damage.

Full text of Notas referred to under section 3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Gardobond-Additive H 7262

Version 2.0

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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.