

Gardobond® PC 4610/1Version 1.6
Revision Date 09/07/2011

Print Date 09/07/2011

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Gardobond® PC 4610/1
 MSDS Number : REL_10703

Company : Chemetall US, Inc.
 675 Central Avenue
 New Providence, NJ 07974

Telephone : +18005264473
 Telefax : +19084644658
 Emergency telephone no : CHEMTREC - 800-424-9300

SECTION 2. HAZARDOUS COMPONENTS INFORMATION

Component	CAS-No.	Weight percent
Trade secret registry	735517-5207P	10.00 - 30.00
Chromic (VI) acid, diammonium salt	7789-09-5	0.10 - 1.00

Unidentified ingredients are considered not hazardous under Federal Hazard Communication Standard (29CFR 1910.1200).

SECTION 3. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid
 Colour : yellow
 Odour : acrylic-like
 Hazard Summary : Harmful if swallowed.Irritating to eyes.May cause skin irritation.May cause cancer.

Route(s) of Entry	Inhalation	Skin	Ingestion
	yes	yes	yes

Carcinogenicity:

NTP Chromic (VI) acid, diammonium salt This substance is listed by NTP as a Carcinogen.
 IARC Chromic (VI) acid, diammonium salt This substance is listed by IARC as a Carcinogen.
 OSHA No substance in this product is regulated by OSHA as a carcinogen

SECTION 4. FIRST AID MEASURES

Inhalation : Remove person to fresh air. If signs/symptoms continue, get medical attention.

Gardobond® PC 4610/1Version 1.6
Revision Date 09/07/2011

Print Date 09/07/2011

- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.
- Ingestion : Rinse mouth. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

- Flash point : Note: does not flash
- Lower explosion limit : Note: Not applicable.
- Upper explosion limit : Note: Not applicable.
- TDG Flammability Class : NONE
- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure adequate ventilation.
- Methods for cleaning up : Ventilate area.
Clean up with inert absorbant material.
Keep in suitable, closed containers for disposal.
Flush with plenty of water.
- Additional advice : Never return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE**Handling**

- Handling : Use with adequate ventilation.

Gardobond® PC 4610/1Version 1.6
Revision Date 09/07/2011

Print Date 09/07/2011

Storage

Requirements for storage areas and containers : KEEP FROM FREEZING
Store indoors in a cool, well-ventilated place
Keep containers dry and tightly closed to avoid moisture absorption and contamination.
Do not store above 100 F.
Keep away from direct sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV (TWA)	OSHA PEL (TWA)
Trade secret registry	NONE	NONE
Chromic (VI) acid, diammonium salt	0.05 mg/m3 skin, as Cr	0.005 mg/m3 as CrO3, ceiling

Eye protection : Safety glasses with side-shields

Hand protection : Impervious gloves

Skin and body protection : Rubber or plastic apron

Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Wear suitable gloves and eye/face protection.
Wear suitable protective clothing.
Wash hands before breaks and immediately after handling the product.
Provide adequate ventilation.
Do not inhale fumes.
Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

pH : 7.0 - 8.0

Freezing point : 0 °C (32 °F)

Boiling point/boiling range : Note: no data available

Vapour pressure : Note: no data available

Bulk density : 8.6 lb/gal

Water solubility : Note: completely soluble

Gardobond® PC 4610/1Version 1.6
Revision Date 09/07/2011

Print Date 09/07/2011

Partition coefficient: n-
octanol/water : Note: no data available

Percent of Volatile by Weight
excluding water : 0

Relative density : 1.030

Evaporation rate : 1
Note: Water = 1

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : freezing
Direct sources of heat.

Materials to avoid : Acids
Oxidizing agents

Hazardous decomposition
products : Carbon dioxide (CO₂)
Carbon monoxide
nitrogen oxides (NO_x)

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity: : Mixture; Not Determined.

SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Advice on Disposal : Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

SECTION 14. TRANSPORT INFORMATION

Refer to Bill of Lading.

Gardobond® PC 4610/1Version 1.6
Revision Date 09/07/2011

Print Date 09/07/2011

SECTION 15. REGULATORY INFORMATION

TSCA Status	:	All components of this material comply with US TSCA requirements.	
SARA 313 Components	:	Chromic (VI) acid, diammonium salt	CAS-No. 7789-09-5
CERCLA Reportable Quantity	:	Chromic (VI) acid, diammonium salt	10 Pounds
California Prop. 65	:	N.D	
NFPA	:	1 0 0	
HMIS	:	1 0 0 C	
WHMIS	:	D2B: Toxic Material Causing Other Toxic Effects D2A: Very Toxic Material Causing Other Toxic Effects	

SECTION 16. OTHER INFORMATION**Further information**

Chemetall US, Inc. warrants that the products described herein will conform with its published specifications. The products supplied by Chemetall and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Chemetall materials for their own particular purpose. Since buyer's conditions of use of products are beyond Chemetall's control, Chemetall does not warrant any recommendations and information for the use of such products. CHEMETALL DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.