# Safety Data Sheet

## prepared to UN GHS Revision 3

## 1. Identification of the Substance/Mixture and the Company/Undertaking

**1.1 Product Identifier** 23604/A

**Revision Date:** 08/04/2015

**Supercedes Date:** 06/16/2015

**Product Name:** Stonseal PA7 Pewter Amine

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Base component of 2 components coatings - Industrial use.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer:**

Stonhard, Division of StonCor Group, Inc.
1000 East Park Avenue
Maple Shade, NJ 08052

+1 856 7797500 (US)

**Datasheet Produced by:** Darnell, Benjamin - ehs@stoncor.com

**1.4 Emergency telephone number:**

CHEMTREC 1-800-424-9300 (Inside US)
CHEMTREC +1 703 5273887 (Outside US)

## 2. Hazard Identification

**2.1 Classification of the substance or mixture**

Hazardous to the aquatic environment, Chronic, category 3
Skin Sensitizer, category 1

**2.2 Label elements**

**Symbol(s) of Product**

**Signal Word**

Warning

**Named Chemicals on Label**

tetraethyl n, n'-(methylenedicyclohexane-4,1,-diyl) bis-dl-aspartate

**HAZARD STATEMENTS**

| | | |
|---|---|---|
| Hazardous to the aquatic environment, Chronic, category 3 | H412 | Harmful to aquatic life with long lasting effects. |
| Skin Sensitizer, category 1 | H317 | May cause an allergic skin reaction. |

**PRECAUTION PHRASES**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/ face protection. |
| P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333+313 | If skin irritation or rash occurs: Get medical advice/attention. |

### 2.3 Other hazards

Not applicable

**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

## 3. Composition/Information On Ingredients

### 3.2 Mixtures

**Hazardous Ingredients**

| CAS-No. | Chemical Name | % |
|---|---|---|
| 136210-30-5 | tetraethyl n, n'-(methylenedicyclohexane-4,1,-diyl) bis-dl-aspartate | 25-50 |
| 1317-65-3 | limestone | 2.5-10 |
| 13463-67-7 | titanium dioxide | 2.5-10 |
| 112945-52-5 | silica, crystalline free | 1.0-2.5 |
| 623-91-6 | 2-Butenedioic acid (2E)-, 1,4-diethyl ester | 1.0-2.5 |

| CAS-No. | GHS Symbols | GHS Hazard Statements | M-Factors |
|---|---|---|---|
| 136210-30-5 | GHS07 | H317-412 | 0 |
| 1317-65-3 | GHS07 | H315-319 | 0 |
| 13463-67-7 | | | 0 |
| 112945-52-5 | | | 0 |
| 623-91-6 | GHS07-GHS08 | H302-371 | 0 |

**Additional Information:** The text for GHS Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice.
**AFTER INHALATION:** Move to fresh air. Consult a physician after significant exposure.
**AFTER SKIN CONTACT:** Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
**AFTER EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

**Self protection of the first aider:**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Harmful if swallowed. Irritating to skin. May cause sensitization by inhalation. May cause sensitization by skin contact.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## 5. Fire-fighting Measures

**5.1 Extinguishing Media:**

Carbon Dioxide, Dry Chemical, Foam

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above.

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

No Information

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 6. Accidental Release Measures

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

Ensure adequate ventilation. Use personal protective equipment.

**6.2 Environmental precautions**

Do not allow material to contaminate ground water system. Prevent product from entering drains.

**6.3 Methods and material for containment and cleaning up**

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## 7. Handling and Storage

**7.1 Precautions for safe handling**

**INSTRUCTIONS FOR SAFE HANDLING:** Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.
**PROTECTION AND HYGIENE MEASURES:** Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

**7.2 Conditions for safe storage, including any incompatibilities**

**CONDITIONS TO AVOID:** No Information
**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

**7.3 Specific end use(s)**

No specific advice for end use available.

## 8. Exposure Controls/Personal Protection

**8.1 Control parameters**

**Ingredients with Occupational Exposure Limits (US)**

| Name | % | OSHAPEL | ACGIH TLV |
|---|---|---|---|
| tetraethyl n, n'-(methylenedicyclohexane-4,1,-diyl) bis-dl-aspartate | 25-50 | | |

| | | | |
|---|---|---|---|
| limestone | 2.5-10 | 5.00 mg/m3 | 10.00 MG/M3 |
| titanium dioxide | 2.5-10 | 15.0 mg/m3 | 10.0 mg/m3 |
| silica, crystalline free | 1.0-2.5 | 20. MPPCF | 10. MG/M3 |
| 2-Butenedioic acid (2E)-, 1,4-diethyl ester | 1.0-2.5 | | |

**FURTHER INFORMATION:** Refer to the regulatory exposure limits for the workforce enforced in each country.

**8.2 Exposure controls**

**Personal Protection**

**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required.

**EYE PROTECTION:** Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses.

**HAND PROTECTION:** Rubber or plastic gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use. Rubber or plastic apron.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | Pewter resin |
| **Physical State** | LIQUID |
| **Odor** | Mild |
| **Odor threshold** | Not determined |
| **pH** | Non-aqueous |
| **Melting point / freezing point (°C)** | Not determined |
| **Boiling point/range (°C)** | N.D. - N.D. |
| **Flash Point, (°F / °C)** | >201F / >94C |
| **Evaporation rate** | Not determined |
| **Flammability (solid, gas)** | Not determined |
| **Upper/lower flammability or explosive limits** | N/A - N/A |
| **Vapour Pressure** | Not determined |
| **Vapour density** | Not determined |
| **Relative density** | Not determined |
| **Solubility in / Miscibility with water** | Negligible |
| **Partition coefficient: n-octanol/water** | Not determined |
| **Auto-ignition temperature (°C)** | Not determined |
| **Decomposition temperature (°C)** | Not determined |
| **Viscosity** | 28770 CPS |
| **Explosive properties** | Not determined |
| **Oxidising properties** | Not determined |

**9.2 Other information**

**VOC Content g/l:** 94

**Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.**

| | |
|---|---|
| **Specific Gravity (g/cm3)** | 1.304 |

## 10. Stability and Reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**
No decomposition if stored and applied as directed. Stable under normal conditions.

**10.3 Possibility of hazardous reactions**
Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**
No Information

**10.5 Incompatible materials**
Strong oxidizing agents. Acids and bases.

**10.6 Hazardous decomposition products**
Thermal decomposition can lead to release of irritating gases and vapours. Alcohols. Exothermic reaction. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## 11. Toxicological Information

**11.1 Information on toxicological effects**

**Acute Toxicity:**

**Oral LD50:**

**Inhalation LC50:**

**Irritation:** No information available.

**Corrosivity:** No information available.

**Sensitization:** No information available.

**Repeated dose toxicity:** No information available.

**Carcinogenicity:** No information available.

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

**If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:**

| CAS-No. | Chemical Name | Oral LD50 | Dermal LD50 | Vapor LC50 |
|---|---|---|---|---|
| 136210-30-5 | tetraethyl n, n'-(methylenedicyclohexane-4,1,-diyl) bis-dl-aspartate | >2000 mg/kg (rat) | >2000 mg/kg (rat) | >4224 mg/m3, 4 hr. (rat) |
| 13463-67-7 | titanium dioxide | 10000 mg/m3, oral (rat) | | |
| 112945-52-5 | silica, crystalline free | 10000 mg/kg, oral, rat | | |
| 623-91-6 | 2-Butenedioic acid (2E)-, 1,4-diethyl ester | 1780 mg/kg (rat) | | |

**Additional Information:**

This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

## 12. Ecological Information

**12.1 Toxicity:**

| | |
|---|---|
| **EC50 48hr (Daphnia):** | No information |
| **IC50 72hr (Algae):** | No information |
| **LC50 96hr (fish):** | No information |

**12.2 Persistence and degradability:** No information

**12.3 Bioaccumulative potential:** No information

**12.4 Mobility in soil:** No information

**12.5 Results of PBT and vPvB assessment:** The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**12.6 Other adverse effects:** No information

| CAS-No. | Chemical Name | EC50 48hr | IC50 72hr | LC50 96hr |
|---|---|---|---|---|
| 136210-30-5 | tetraethyl n, n'-(methylenedicyclohexane-4,1,-diyl) bis-dl-aspartate | 88.6 mg/l | 113 mg/l | 66 mg/l (zebra fish) |
| 1317-65-3 | limestone | No information | No information | |
| 13463-67-7 | titanium dioxide | >100 mg/l (EC50, 48h, Daphnia magna OECD202)ation | No information | >1000 mg/l |
| 112945-52-5 | silica, crystalline free | No information | No information | |
| 623-91-6 | 2-Butenedioic acid (2E)-, 1,4-diethyl ester | No information | No information | |

## 13. Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

| | | |
|---|---|---|
| **14.1** | **UN number** | N/A |
| **14.2** | **UN proper shipping name** | Not regulated for transport |
| | **Technical name** | N/A |
| **14.3** | **Transport hazard class(es)** | N/A |
| | **Subsidiary shipping hazard** | |
| **14.4** | **Packing group** | N/A |
| **14.5** | **Environmental hazards** | |
| **14.6** | **Special precautions for user** | Not applicable |
| | **EmS-No.:** | N/A |
| **14.7** | **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** | Not applicable |

## 15. Regulatory Information

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

## U.S. Federal Regulations: As follows -

### CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None Known

### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S. Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

### Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

| Chemical Name | CAS-No. |
|---|---|
| dipropylene glycol dimethyl ether | 111109-77-4 |

### U.S. Clean Air Act:

| | |
|---|---|
| EPA Coating Category: | Industrial Maintenance Coating |
| EPA VOC Content Limit (g/l): | 450 |
| Product VOC Content (g/l) | 94 |
| Thinning Recommendations: | None |
| Application Recommendations: | For professional use only. |

* As per the federal EPA definition for coating categories in 40 CFR 59.401.
** Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

## U.S. State Regulations: As follows -

### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

| Chemical Name | CAS-No. |
|---|---|
| secondary amine | 18275200000-5181 |
| non-hazardous component | 18275200000-5192 |
| non hazardous ingredients | 18275200000-5095 |

### Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

| Chemical Name | CAS-No. |
|---|---|
| secondary amine | 18275200000-5181 |
| non-hazardous component | 18275200000-5192 |
| non hazardous ingredients | 18275200000-5095 |
| dipropylene glycol dimethyl ether | 111109-77-4 |

### California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

| Chemical Name | CAS-No. |
|---|---|
| titanium dioxide | 13463-67-7 |
| carbon black | 1333-86-4 |

quartz (silicon dioxide) 14808-60-7

Warning: The following ingredients present in the product are known to the State of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

## International Regulations: As follows -

*** Canadian DSL:**

All chemical ingredients included on inventory or exempt.

**15.2 Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 16. Other Information

**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H371 | May cause damage to organs. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Reasons for revision**

This Safety Data Sheet (SDS) has been revised to meet updated national hazard communication standards which have adopted the provisions of the UN GHS system. There have been both formatting and content changes based on the GHS classification (if applicable), Please review each section of the SDS for specific changes. This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark
ESIS (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in Ispra, Italy
Annex VI of the EU Council Directive 67/548/EEC
Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation)
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

Acronym & Abbreviation Key:

| | |
|---|---|
| CLP | Classification, Labeling & Packaging Regulation |
| EC | European Commission |
| EU | European Union |
| US | United States |
| CAS | Chemical Abstract Service |
| EINECS | European Inventory of Existing Chemical Substances |
| REACH | Registration, Evaluation, Authorization of Chemicals Regulation |
| GHS | Globally Harmonized System of Classification and Labeling of Chemicals |
| LTEL | Long term exposure limit |
| STEL | Short term exposure limit |

| | |
|---|---|
| OEL | Occupational exposure limit |
| ppm | Parts per million |
| mg/m3 | Milligrams per cubic meter |
| TLV | Threshold Limit Value |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| OSHA | Occupational Safety & Health Administration |
| PEL | Permissible Exposure Limits |
| VOC | Volatile organic compounds |
| g/l | Grams per liter |
| mg/kg | Milligrams per kilogram |
| N/A | Not applicable |
| LD50 | Lethal dose at 50% |
| LC50 | Lethal concentration at 50% |
| EC50 | Half maximal effective concentration |
| IC50 | Half maximal inhibitory concentration |
| PBT | Persistent bioaccumulative toxic chemical |
| vPvB | Very persistent and very bioaccumulative |
| EEC | European Economic Community |
| ADR | International Transport of Dangerous Goods by Road |
| RID | International Transport of Dangerous Goods by Rail |
| UN | United Nations |
| IMDG | International Maritime Dangerous Goods Code |
| IATA | International Air Transport Association |
| MARPOL | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 |
| IBC | International Bulk Container |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.