

STANDART PCBF 3500

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| Version | Revision Date: | SDS Number: | Date of last issue: 12/09/2019 |
| 2.1 | 06/26/2023 | 102000024120 | Date of first issue: 03/21/2018 |

SECTION 1. IDENTIFICATION

Product name : STANDART PCBF 3500
Product code : 022057E30

Manufacturer or supplier's details

Company name of supplier : ECKART America Corporation
Address : 830 East Erie Street
Painesville OH 44077
Telephone : 866-458-7837
(440) 954-7600
Telefax : (440) 354-6224
e-mail adresse : info.eckart.america.oh@altana.com
Emergency telephone : **CHEMTREC:** 800-424-9300
CHEMTREC: 1-703-527-3387 (International)

NCEC:

(contract no. ECKART29003-NCEC)
US: +1 866 928 0789 (Toll free)
Canada: +1 800 579 7421 (Toll Free)
Mexico: +52 55 5004 8763

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|-----------|-----------------------|
| Aluminum | 7429-90-5 | $\geq 30 - < 50$ |
| Silica | 7631-86-9 | $\geq 1 - < 5$ |

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Take the victim into fresh air.

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|---|---|---|
| If inhaled | : | No hazards which require special first aid measures. If unconscious, place in recovery position and seek medical advice. |
| In case of skin contact | : | If symptoms persist, call a physician. Wash off immediately with soap and plenty of water. |
| In case of eye contact | : | Remove contact lenses. |
| If swallowed | : | Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : | None known. |

SECTION 5. FIRE-FIGHTING MEASURES

| | | |
|--|---|---|
| Suitable extinguishing media | : | Dry sand Special powder against metal fire |
| Unsuitable extinguishing media | : | ABC powder Carbon dioxide (CO ₂) Water Foam |
| Specific hazards during fire fighting | : | Contact with water liberates extremely flammable gas (hydrogen). |
| Further information | : | Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation. |
| Environmental precautions | : | The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Use mechanical handling equipment. Do not use a vacuum cleaner. Pick up and arrange disposal without creating dust. |

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Sweep up and shovel.
Do not flush with water.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : During processing, dust may form explosive mixture in air.
Take measures to prevent the build up of electrostatic charge.
Earthing of containers and apparatuses is essential.
Use explosion-proof equipment.
When transferring from one container to another apply earthing measures and use conductive hose material.
- Normal measures for preventive fire protection.
- Advice on safe handling : Avoid creating dust.
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
Keep away from heat and sources of ignition.
Do not smoke.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Reaction with water liberates extremely flammable gas (hydrogen)
Store in original container.
Keep containers tightly closed in a cool, well-ventilated place.
Keep container closed when not in use.
Keep away from sources of ignition - No smoking.
Electrical installations / working materials must comply with the technological safety standards.
- Technical measures/Precautions : Protect from humidity and water.
- Materials to avoid : Do not store together with oxidizing and self-igniting products.
Never allow product to get in contact with water during storage.
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- Further information on storage stability : Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

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| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|------------|-----------|-------------------------------------|---|-----------|
| Aluminum | 7429-90-5 | TWA (total dust) | 50 Million particles per cubic foot | OSHA Z-3 |
| | | TWA (Respirable) | 5 mg/m3 | NIOSH REL |
| | | TWA (total dust) | 15 mg/m3 | OSHA Z-3 |
| | | TWA (total) | 10 mg/m3 | NIOSH REL |
| | | TWA (respirable fraction) | 5 mg/m3 | OSHA Z-3 |
| | | TWA (respirable fraction) | 15 Million particles per cubic foot | OSHA Z-3 |
| | | TWA (Respirable particulate matter) | 1 mg/m3 | ACGIH |
| | | TWA | 5 mg/m3 (Aluminum) | NIOSH REL |
| | | TWA (Total) | 15 mg/m3 (Aluminum) | OSHA P0 |
| | | TWA (Respirable fraction) | 5 mg/m3 (Aluminum) | OSHA P0 |
| | | TWA (total dust) | 15 mg/m3 (Aluminum) | OSHA Z-1 |
| | | TWA (respirable fraction) | 5 mg/m3 (Aluminum) | OSHA Z-1 |
| | | TWA (Total dust) | 15 mg/m3 (Aluminum) | OSHA P0 |
| | | TWA (respirable dust fraction) | 5 mg/m3 (Aluminum) | OSHA P0 |
| | | TWA (welding fumes) | 5 mg/m3 (Aluminum) | NIOSH REL |
| | | TWA (pyro powders) | 5 mg/m3 (Aluminum) | NIOSH REL |
| | | TWA | 1 mg/m3 | ACGIH |

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| | | (Respirable particulate matter) | (Aluminum) | |
| | | TWA (Fumes) | 5 mg/m3 | OSHA P0 |
| | | TWA (powder) | 5 mg/m3 (Aluminum) | OSHA P0 |
| Silica | 7631-86-9 | TWA (Dust) | 20 Million particles per cubic foot (Silica) | OSHA Z-3 |
| | | TWA (Dust) | 80 mg/m3 / %SiO2 (Silica) | OSHA Z-3 |
| | | TWA | 6 mg/m3 (Silica) | NIOSH REL |

Personal protective equipment

Respiratory protection : Use suitable breathing protection if workplace concentration requires.
 Breathing apparatus with filter.
 P1 filter

Hand protection

Material : Leather
 Glove length : Long sleeve gloves

Remarks : Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Eye protection : Face-shield
 Safety glasses

Skin and body protection : Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1; Anti-static safety shoes

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder
 Color : silver
 Odor : odorless
 Odor Threshold : No data available
 pH : substance/mixture is non-soluble (in water)
 Melting point/range : > 600 °C

Initial boiling point and boiling range : No data available

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Flash point : No data available
Evaporation rate : No data available
Flammability (solid, gas) : Combustible Solids

Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : 30 g/m3
Vapor pressure : No data available
Relative density : No data available
Density : 2.5 g/cm3

Bulk density : ca. 0.34 g/cm3
Solubility(ies)
Water solubility : insoluble
Partition coefficient: n-octanol/water : No data available
Autoignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : Contact with acids and alkalis may release hydrogen.
Stable under recommended storage conditions.
Dust may form explosive mixture in air.

Conditions to avoid : No data available
Incompatible materials : Acids
Bases
Oxidizing agents
Water

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:**Silica:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
(Mouse): 15,000 mg/kg

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Acute inhalation toxicity : (Rat): 0.139 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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Further information

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Silica:

Toxicity to daphnia and other : (Daphnia): 7,600 mg/l
aquatic invertebrates
Toxicity to algae : (Chlorella pyrenoidosa): 440 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Other adverse effects

No data available

Components:

Silica:

Additional ecological : No data available
information

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations.
Contaminated packaging : Empty containers should be taken to an approved waste
handling site for recycling or disposal.
In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR

Not regulated as a dangerous good

49 CFR

: Not classified as dangerous in the meaning of transport
regulations.

International Regulations

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UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regulations.

ADR : Not classified as dangerous in the meaning of transport regulations.

IATA-DGR : Not classified as dangerous in the meaning of transport regulations.

IMDG-Code : Not classified as dangerous in the meaning of transport regulations.

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|----------|-----------|----------------|
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Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations**Massachusetts Right To Know**

| | |
|----------|-----------|
| Aluminum | 7429-90-5 |
| Silica | 7631-86-9 |

Pennsylvania Right To Know

| | |
|----------|--------------|
| | Not Assigned |
| Aluminum | 7429-90-5 |
| Silica | 7631-86-9 |

California Prop. 65

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

| | |
|----------|-----------|
| Aluminum | 7429-90-5 |
| Silica | 7631-86-9 |

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California Permissible Exposure Limits for Chemical Contaminants

| | |
|----------|-----------|
| Aluminum | 7429-90-5 |
|----------|-----------|

| | |
|--------|-----------|
| Silica | 7631-86-9 |
|--------|-----------|

The ingredients of this product are reported in the following inventories:

| | |
|------|--|
| DSL | : All components of this product are on the Canadian DSL |
| TSCA | : On TSCA Inventory |

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

| | |
|-----------------|---|
| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
| NIOSH REL | : USA. NIOSH Recommended Exposure Limits |
| OSHA P0 | : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values) |
| OSHA Z-1 | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| OSHA Z-3 | : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts |
| ACGIH / TWA | : 8-hour, time-weighted average |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA P0 / TWA | : 8-hour time weighted average |
| OSHA Z-1 / TWA | : 8-hour time weighted average |
| OSHA Z-3 / TWA | : 8-hour time weighted average |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory

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of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 06/26/2023

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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