

Safety Data Sheet

Version: 1

Product name: Sintratec PA12 black

Region: US

Issue Date 01.06.16

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name Sintratec PA12 black

Product name Sintratec PA12 black

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

Laser sintering

Uses advised against

No data available.

Details of the supplier of the safety data sheet

Address:

Company name Sintratec AG
Street Badenerstrasse 13
Postal Code 5200
City Brugg
Country Switzerland

Phone number +41 56 552 00 22

Mail info@sintratec.com

Emergency telephone number

+41 56 552 00 22 (Mo – Fr 9am -12pm & 13pm – 17pm) (CET)

SECTION 2: Hazards identification

GHS Classification

Not classified

Label elements

| | |
|--------------------------|----------------|
| Symbols/Pictograms | None |
| Signal word | None |
| Hazard Statements | Not classified |
| Precautionary Statements | |
| Prevention | None |
| Response | None |
| Storage | None |
| Disposal | None |

Hazards not otherwise classified (HNOC)

No data available.

Unknown acute toxicity

No data available.

SECTION 3: Composition and information on ingredients

Chemical nature

Chemical name

Polylauro lactam (polyamide 12) (Cas-No. 25038-74-8), modified, polymer

SECTION 4: First aid measures

Description of first aid measures

General information

In case of continuing adverse effects, see a physician. Change contaminated clothing immediately. It is necessary to wash the clothing before reuse.

After inhalation

IF INHALED: The affected person has to be removed to an area with fresh air and placed in a comfortable position for breathing.

After skin contact

If product gets in contact with skin it is recommended to wash off with water and soap. When in contact with molten product, cool quickly with fresh water. It is recommended to not pull solidified product from the skin and seek medical attention.

After eye contact

Clean right after with enough water, also under eyelids, for a minimum of 15 minutes.

After ingestion

Carefully clean mouth with water. Seek medical advice immediately. An unconscious person should never be given anything.

Most important symptoms and effects, both acute and delayed

No data available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Foam; Water spray jet; Carbon dioxide; extinguishing powder

Unsuitable extinguishing media

No data available.

Special hazards arising from the chemical

In case of fire, the following can be set free: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); Combustion materials of this product have to be classified invariably as respiratory poison.

Protective equipment and precautions for firefighters

As in all situations with fire, wear self-contained breathing apparatus pressure-demand and full protective gear. MSHA/NIOSH (approved or equivalent)

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure the existence of adequate ventilation. Avoid contact with skin, eyes or clothing and the formation of dust. Keep away sources of ignition. Use personal protection as recommended in Section 8.

Methods and material for containment and cleaning up

Treat the material as suggested under the heading "Disposal considerations" when picked up. Take up mechanically.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

There are no measures necessary if stored and handled as instructed. Avoid the formation and deposition of dust. A good ventilation is needed (local exhaust ventilation, if necessary)

General protective and hygiene measures

Washing hands before breaks and after work is recommended. Foodstuff and beverages should be kept away. Eating, drinking or smoking is not allowed during work time. An eye wash fountain in the working area should be provided. No dust inhalation. Use of barrier skin cream is recommended. Areas of the skin touched by dust should be cleaned with soap and water immediately, as the powder affects the natural moisture from the skin.

Advice on protection against fire and explosion

Sources of heat and ignition should be kept away. Together with air dust can create an explosive mixture. To avoid static charges it is necessary to take precautionary measures.

Conditions for safe storage, including any incompatibilities

The containers should be stored dry, tightly closed, at temperatures around 5 and 35°C and relative air moisture of 20 – 70%. The product has to be kept in closed containers.

SECTION 8: Exposure controls/personal protection

Control parameters

| Dust | |
|--|-----------------------|
| List of approved workplace exposure limits (WELs) / EH4 | |
| Total inhalable dust | |
| TWA | 10 mg/ m ³ |
| List of approved workplace exposure limits (WELs) / EH40 | |
| Respirable dust | |
| TWA | 4 mg/ m ³ |

Appropriate engineering controls

Ventilation system

Individual protection measures, such as personal protective equipment

Respiratory protection

During intensive contact, respiratory protection that is approved by NIOSH/MSHA has to be worn. If workplace exposure limits are exceeded, positive supplied air respirators may be required for high airborne contaminated concentrations. Accordingly to the regional regulations, there has to be respiratory protection.

Eye / face protection

Safety glasses (or goggles) with side shields.

Hand protection

It is recommended to wear protective gloves.

Body protection

Wear fully closed clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Information on basic physical and chemical properties

Information on basic physical and chemical properties

Appearance

Powder

Color

Dark Grey

pH

Not applicable

Melting point/freezing point

185 °C

Boiling point / boiling range

Not applicable

Odor

Odorless

Odor Threshold

Not determined

| | |
|--------------------------------|-------------------------------------|
| Flash point | Not applicable |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not flammable |
| Flammability Limit in Air | Not determined |
| Vapor Pressure | Not applicable |
| Vapor density | Not determined |
| Density | 1.0 – 1.1 g/cm ³ (20° C) |
| Relative density | Not determined |
| Bulk density | Not determined |
| Specific gravity | Not determined |
| Water solubility | Insoluble |
| Partition coefficient (LogPow) | Not determined |
| Ignition temperature | >350 °C |
| Autoignition temperature | Not determined |
| Decomposition temperature | >300 °C |
| Kinematic viscosity | Not determined |
| Dynamic viscosity | Not determined |
| Explosive properties | Product is explosive |
| Oxidizing properties | No oxidizing properties |

SECTION 10: Stability and reactivity

Reactivity

Product needs to be stabled under suggested storage and handling conditions (see Section 7).

Chemical stability

Is stable under normal conditions.

Possibility of hazardous reactions

There are none under normal processing.

Conditions to avoid

None, if handled according to intended use.

Incompatible materials

None, if handled according to intended use.

Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Information on Toxicology

Information on likely routes of exposure

| | |
|--------------|---|
| Inhalation | Dust inhalation can irritate the respiratory tract. |
| Eye Contact | In case of eye contact, it is possible to cause mechanical irritation through dust particles. |
| Skin Contact | According to information supplied, there are no known effects. |
| Ingestion | According to information supplied, there are no known effects. |

Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

Not classified

Serious eye damage/eye irritation

If in contact with eyes it can cause mechanical irritation through the dust particles

Sensitization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity
 Not classified
STOT – single exposure
 Not classified
STOT – repeated exposure
 Not classified
Aspiration hazard
 Not classified

SECTION 12: Ecological information

Ecotoxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Waste treatment methods

Disposal of wastes

The disposal of the product should be accordingly with applicable regional, national and local laws and regulations.

Contaminated Packaging

All the residuals have to be removed from packaging and when emptied totally disposed of in accordance with the regulations for waste removal. If not completely emptied, packages have to be disposed of as requested by the regional disposer.

SECTION 14: Transport Information

DOT

| | |
|----------------------|---------------|
| UN/ID No. | Not regulated |
| Proper shipping name | Not regulated |
| Hazard class | Not regulated |
| Packaging Group | Not regulated |
| Special precautions | Not regulated |
| Marine pollutant | Not regulated |

SECTION 15: Disposal considerations

International Inventories

| Component | AICS | DSL/NDSL | EINECS/ ELI NCS | ENCS | IESC | KECL | PICCS | TSCA |
|--|------|----------|--------------------|------|------|------|-------|------|
| Polylauroactam (polyamide 12) 25038-74-8 | X | X | - | X | X | X | X | X |

"-" Not Listed

"X" LISTED

US Federal Regulations

SARA 313

Not apply

Sara 311/312 Hazard Categories
CWA (Clean Water Act)
Not apply

CERCLA
Not apply

US State Regulations
California Proposition 65
Not apply

U.S. State Right-to-Know Regulations
Not apply

SECTION 16: Other information

Revision Note

| | |
|----------------------|-------------|
| Issue Date | 01-Jun-2016 |
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