



Sharebot srl encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

Product Identifiers

Product Name: SHAREBOT PLA-S

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

Identified uses:

3D printing filament. Material for 3D printing FDM applications.

Details of the supplier of the Safety Data Sheet

Company:

Sharebot srl
Via Montello 18
23895 Nibionno
info@sharebot.it

Emergency overview

Caution! May cause eye/skin irritation. Burning produces obnoxious and toxic fumes. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Potential health effects

Eye contact: May cause irritation

Skin contact: May cause irritation

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea

Inhalation: Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough
Low hazard for usual industrial and commercial handling.

Sensitization: None known

Specific Hazards

No informations available.

Flammability

Fine dust dispersed in air may ignite

Component: Polylactide resin

CAS-No. 9051-89-2



EC-No. Polymer

Purity: >98%

Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin Contact: Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, consult a physician. Cool skin rapidly with cold water after contact with hot polymer.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Ingestion: Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician.

Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

Indication of medical attention and special treatment needed

If burn is present, treat as any thermal burn, after decontamination. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

FLAMMABILITY:

Autoignition temperature: 388°C

Extinguishing media

Foam. Water. CO₂. Dry chemical. Alcohol resistant foams are preferred if available.

Hazardous decomposition products

Burning produces obnoxious and toxic fumes Aldehydes, Carbon Monoxide (CO), Carbon Dioxide (CO₂)



Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Personal precautions, protective equipment and emergency procedures

Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Exposure Controls and Personal Protection.

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Methods and materials for containment and cleaning up

Sweep up. Collect in suitable and properly labeled containers.

Precautions for safe handling

General Handling:

No smoking, open flames or sources of ignition in handling and storage area.

Good housekeeping and controlling of dusts are necessary for safe handling of product. Avoid breathing process fumes. Use with adequate ventilation. When appropriate, unique handling information for containers can be found on the product label. Workers should be protected from the possibility of contact with molten resin. Do not get molten material in eyes, on skin or clothing.

Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

Conditions for safe storage, including any incompatibilities storage

Store in accordance with good manufacturing practices, in cool place and far from direct sunlight.

Control parameters

None established.



Exposure Controls

Personal protection

Eye/Face Protection: Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent. If there is a potential for exposure to particles which

could cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.

Skin Protection: No precautions other than clean body-covering clothing should be needed.

Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection (EN 407), when needed. Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust

or mist is present. Use the following CE approved air-purifying respirator: When dust/mist are present use a/an Particulate filter, type P2. When combinations of vapors, acids, or dusts/mists are present use a/an Organic vapor cartridge with a particulate pre-filter, type AP2.

Engineering Controls

Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: Clear, Translucent, opaque

Odor: sweet

Odor threshold: N/A



pH: N/A

Melting point: N/A

Freezing point: N/A

Boiling point: N/A

Flash point: N/A

Flammability: N/A

Specific Gravity:

1,24 g/cc

Solubility in water:

Insoluble

Autoignition Temp.:

N/A

Decomposition Temp.:

250°C

Oxidizing properties:

N/A

Reactivity

No dangerous reaction known under consideration of normal use

Chemical stability

Stable

Possibility of hazardous reactions



Polymerization will not occur

Conditions to Avoid

Avoid temperatures above 240°C. Exposure to elevated temperatures can cause product to decompose

Incompatible Materials

Oxidizing agents. Strong bases.

Hazardous decomposition products

Burning produces obnoxious and toxic fumes: Aldehydes, Carbon Monoxide (CO), Carbon Dioxide (CO₂)

Principle routes of exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Acute toxicity: there were no target organ effects noted following ingestion or dermal exposure.

Local Effects: may cause eye/skin irritation. Product dust may be irritating to eyes, skin and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Long term toxicity: none

Specific effects: may cause skin irritation or dermatitis. Burning produces irritant fumes.

Mutagenic effects: none

Reproductive toxicity: no

data available

Carcinogenic effects: no data

available

Target organ effects: none

Bioaccumulative potential

Does not bioaccumulate.

Inherently biodegradable.

Mobility in soil

In the terrestrial environment,

material is expected to remain

in the soil. In the aquatic



environment, material will

sink and remain in the

sediment.

Waste treatment methods

For uncontaminated material the disposal options include mechanical and chemical recycling or energy recovery. In some countries landfill is also allowed. For contaminated material the options remain the same, although additional evaluation is required. For all countries the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws. All disposal methods must be in compliance with the EU framework Directives 2008/98/EC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams. Transboundary shipment of wastes must be in compliance with Regulation (EC) No 1013/2006 and subsequent modifications.

Not Classified – not regulated ad hazardous material.

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

USA TSCA Inventory list:

Listed

Canada DSL Inventory list:

Listed

Reach/EU EINECS list:

Listed

Japan ECL:

Listed

Australia AICS:

Listed

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