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Safety data sheet: Z-ASA Pro

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. PRODUCT IDENTIFIER

Trade name: Z-ASA Pro

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVI-SED AGAINST

Identified use: thermal processing for 3D printing in Layer Plastic Depo-

sition (LPD) technology.

Use advised against: other than listed above

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier: Zortrax S.A.

Lubelska 43a 10-410 Olsztyn

Poland

+48 89 672 40 01

Made in:

1.4. EMERGENCY TELEPHONE NUMBER

Emergency telephone number: 112

SECTION 2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

This product is not classified as dangerous according to Regulation (EC) No 1272/2008.

2.2. LABEL ELEMENTS

Hazard pictogram(s):not applicableSignal word(s):not applicableHazard statement(s):not applicablePrecautionary statement(s):not applicable

2.3. OTHER HAZARDS

The product does not meet the criteria for PBT or vPvB classification.



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Not applicable

3.2. MIXTURES

ASA (acrylonitrile-styrene-acrylate copolymer) Additives and colorants

SECTION 4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Eye contact: immediately rinse eyes with water. In case of irritation,

contact a physician.

Skin contact: if molten material comes into contact with the skin, cool

immediately with cold water. Removal of solidified molten material from skin as well as treatment of burns require

medical assistance.

Ingestion: remove material residues from mouth and rinse mouth

with water. Drink plenty of water. Do NOT induce vomiting. In case of discomfort, contact a physician.

Inhalation: provide fresh air. In case of noticing worrying symptoms,

consult a physician.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Most important symptoms/effect: no data available

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREAT-MENT NEEDED

Notes to physician: treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: fine spray or water mist, dry powder, foam, carbon dioxi-

de (CO_3) .

Unsuitable extinguishing media: high volume water jet.



5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Special hazards arising from the substance or mixture: special exposu

special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: burning produces irritating and noxious fumes/gases, smoke, carbon monoxide, carbon dioxide.

5.3. ADVICE FOR FIREFIGHTERS

Special protective equipment for firefighters:

self-contained breathing apparatus and full firefighting

protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Avoid contact with eyes and skin. Do not breathe vapors. In case of failure in a confined space, ensure proper ventilation. Remove sources of ignition and extinguish open flame.

6.2. ENVIRONMENTAL PRECAUTIONS

Prevent or limit further leakage if possible. Avoid discharge of the product into drain, ground and surface water.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep up and gather solidified material into appropriate containers for disposal. Collected material treat as waste.

6.4. REFERENCE TO OTHER SECTIONS

See SECTION 8 for personal protection information. See SECTION 13 for disposal considerations.

SECTION 7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with general safety regulations. Use personal protective equipment. Ensure proper ventilation. Avoid contact with molten material. Do not eat, drink or smoke when using the product. Do not ingest.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in tightly closed packaging in a dry and cool room away from hot surfaces and sources of ignition. Protect from moisture and direct sunlight.

7.3. SPECIFIC END USE(S)

See SECTION 1.2.

Exposure scenario: no data available
Other guidelines: no data available



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Exposure limits: the product does not contain any hazardous substances

with occupational exposure limits.

Biological limit values:

Recommended monitoring procedures:

Derived No Effect Level (DNEL):

Predicated No Effect Concentration (PNEC):

not applicable

not applicable

8.2. EXPOSURE CONTROLS

Appropriate engineering controls: store at temperatures between 20 and 30°C. Ensure

proper ventilation, especially in confined spaces.

Individual protection measures, such as personal protective equipment:

Eye protection: wear safety glasses with side-shields.

Skin protection: wear heat-resistant gloves when handling molten mate-

rial.

Respiratory protection: when working in spaces with high temperatures and with

poor ventilation, use breathing equipment with particle

filter.

Thermal hazards: no fire hazard under normal use conditions.

Environmental exposure controls: do not allow to enter drains, ground and surface water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: filament

Physical state: solid (compressed)

Colors: various

Odor: nearly odorless

Melting point/freezing point: 140 - 170° C

Initial boiling point and boiling range: no data available

Flammability: flammable in constant flame

Upper/lower flammability or explosive limits: not applicable
Flash point: not applicable
Auto-ignition temperature: no data available

Decomposition temperature: >= 280 °C

pH: no data available

Solubility: insoluble

Partition coefficient: n-octanol/water: no data available Vapor pressure: no data available

Relative density: 1.18 g/cm³

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Vapor density: no data available
Particle size: no data available
Particle size distribution: not applicable

9.2. OTHER INFORMATION

Miscibility: no data available
Fat solubility: no data available
Conductivity: no data available
Gas group: no data available

SECTION 10. STABILITY AND REACTIVITY

10.1. REACTIVITY

No reactivity under normal storage conditions.

10.2. CHEMICAL STABILITY

Stable under normal storage conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None under normal storage and processing.

10.4. CONDITIONS TO AVOID

Sources of heat, ignition and moisture. Working in spaces with poor ventilation.

10.5. INCOMPATIBLE MATERIALS

Strong oxidants

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No decomposition under normal conditions. Combustion products: see SECTION 5.2.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

Acute toxicity: no data available

Skin corrosion/irritation: no irritating effects are known.

Serious eye damage/irritation: no data available

Respiratory or skin sensitization: no sensitizing effects are known.

Germ cell mutagenicity: no data available

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Carcinogenicity:

Reproductive toxicity:

STOT-single exposure:

STOT-repeated exposure:

Aspiration hazard:

no data available
no data available
no data available

SECTION 12. ECOLOGICAL INFORMATION

12.1. TOXICITY

No data available

12.2. PERSISTENCE AND DEGRADABILITY

Difficult to degrade.

12.3. BIOACCUMULATIVE POTENTIAL

No data available

12.4. MOBILITY IN SOIL

No data available

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

No data available

12.6. ENDOCRINE DISRUPTING PROPERTIES

No data available

12.7. OTHER ADVERSE EFFECTS

See SECTION 6.2.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Do not discard into drains, water courses or onto the ground. Waste and empty containers should be disposed of in accordance with local regulations.



SECTION 14. TRANSPORT INFORMATION

14.1. UN NUMBER OR ID NUMBER

DOT, ADR, IMDG, IATA - not applicable

14.2. UN PROPER SHIPPING NAME

DOT, ADR, IMDG, IATA - not applicable

14.3. TRANSPORT HAZARD CLASS(ES)

DOT, ADR, IMDG, IATA - not applicable

14.4. PACKING GROUP

DOT, ADR, IMDG, IATA - not applicable

14.5. ENVIRONMENTAL HAZARDS

DOT, ADR, IMDG, IATA - not applicable

14.6. SPECIAL PRECAUTIONS FOR USER

DOT, ADR, IMDG, IATA - not applicable

14.7. MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not applicable

SECTION 15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Safety, health and environmental regulations/legislation specific for the substance or mixture US EPA TSCA:

CERCLA Section 103 (40CFR302.4) - not listed,

SARA Section 311/312 (40CFR370.21) - not listed,

SARA Section 313 (40CFR372.65) - not listed,

SARA Section 355 (extremely hazardous substances) - not listed,

TSCA - Toxic Substances Control Act (USA) - not listed,

DSL - Domestic Substances List (Canada) - not listed,

ENCS - Existing and New Chemical Substances (Japan) - not listed,

KECL - Korea Existing Chemicals List (Korea) - not listed,

AICS - Australian Inventory of Chemical Substances (Australia) - not listed.

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European regulations:

EC NUMBER - not assigned, Directive 96/82/EC - not applicable.

15.2. CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment for the product has not been carried out.

SECTION 16. OTHER INFORMATION

This Safety Data Sheet has been prepared on the basis of the currently available data on the product as well as of the Manufacturer's experience and knowledge. It should be treated as a guide for safe transportation, storage and handling. The given information is not to be considered as a warranty or quality specification. Additionally, it is the user's responsibility to handle the product in accordance with local regulations and standards.

End of Safety Data Sheet



Zortrax S.A. Lubelska 43a 10-410 Olsztyn, Poland NIP: 5242756595 REGON: 146496404

Contact
Office: office@zortrax.com
Sales Department: sales@zortrax.com
Support Center: support@zortrax.com

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