

DuraForm® ProX® PA

Revision Date: October 10, 2019

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation: DuraForm ProX PA

1.2 Use of the substance / preparation: For use with ProX SLS® systems

1.3 Company/undertaking identification:

3D Systems, Inc.
333 Three D Systems Circle
Rock Hill, South Carolina U.S.A.
Phone: 803.326.3900 or
Toll-free Phone: 800.793.3669
e-mail: moreinfo@3dsystems.com
Chemical Emergency:

Chemical Emergency: 800.424.9300 – Chemtrec

3D Systems Europe Ltd.
Mark House, Mark Road
Hemel Hempstead
Herts HP2 7 United Kingdom
Phone: +44 144-2282600
e-mail: moreinfo@3dsystems.com
Chemical Emergency:

+1 703.527.3887 – Chemtrec 800-789-767 – Italia Chemtrec 3D Systems / Australia 5 Lynch Street Hawthorn, VIC 3122 +1 03 9819-4422 e-mail: moreinfo@3dsystems.com

Chemical Emergency:

+(61) 29037.2994 - Aus Chemtrec

2. HAZARDS IDENTIFICATION

2. HAZARDS IDENTIFICATION

2.1 Classification:

GHS: Regulation (EC) No. 1272/2008:

Physical Hazard:

None

Health Hazard:

None

Environmental Hazard:

None

Hazard pictograms and signal word: None

Hazard determining components of labelling: None

Hazard statements: None

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.

P307+313: If exposed: Get medical advice/attention.

P404: Store in a closed container.

P501: Dispose of contents/container in accordance with local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Preparation related information

3.1.1- Hazardous ingredients: None

3.1.2 - Non-hazardous ingredients:

		21211			Classification
Chemical name		CAS-No	EC-No	%	Regulation (EC) 1272/2008
Polymer p	owder	25038-74-8	607-508-7	80-100	Not Classified



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4. FIRST AID MEASURES

- **4.1 In case of inhalation:** In case of symptoms of irritation caused by vapors in thermal processing: provide fresh air, seek medical advice if necessary.
- **4.2 In case of skin contact:** Flush skin with plenty of soap and water.
- **4.3 In case of eye contact:** Flush eyes with plenty of water.

5. FIRE-FIGHTING MEASURES

- 5.1. Suitable extinguishing media: Water mist, dry chemical, carbon dioxide, or appropriate foam.
- 5.2 Extinguishing media which must not be used for safety reasons: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Refer to 1995 edition of NFPA 33 Appendix A. The minimum explosive concentration of dust in the air is 30 grams per cubic meter. Dust control and good housekeeping are required. Dust may also carry a static charge. Make sure equipment and personnel are grounded to avoid static discharge.

5.3 Advice for firefighters

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Wear self-contained breathing apparatus for firefighting if necessary. Cool containers / tanks with water spray.

Minimum ignition energy: 5-20 mJ
Minimum explosible concentration (LEL): 20 - 70 g.m-3

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Exclude non-essential personnel. Remove all sources of ignition. Ensure adequate ventilation. Do not breathe dust.

6.2 Environmental precautions

Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Use wet wipes to clean up smaller spills. For larger sprills, use approved industrial vacuum cleaner is recommended. Do not create a powder cloud by using a brush or compressed air.

(Example: Use of an X-839 Series ULPA Critical Filter Dry Canister Vacuum is recommneded).

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide adequate ventilation. Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Store in original container. Avoid dust formation. Dust may form explosive mixture in air. Do not breathe dust.

7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight.

Storage temperature: 10 - 30 C



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values:

Occupational exposure limits: There are no PEL stabled for this product. Limit for nuisance dust is 10 mg/m³ (total dust), 4 mg/m³ (respirable dust). Check local regulations in case different limits apply. During normal use, these concentrations are not expected to be reached.

8.2 Exposure controls

Technical measures to prevent exposure: Provide adequate ventilation. When ventilation is not adequate, use of a NIOSH approved N95 rated dusk mask is recommended (Example: 3M 8200, 3M8210,3M8110s). **Instructual measures to prevent exposure:** When using, do not eat, drink or smoke. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the day.

Personal protection equipment:

Hand protection: Use impervious nitrile gloves.

Eye protection: Wear safety glasses or chemical goggles.

Body protection: Wear appropriate protective clothing and shoes (e.g., lab coat, sleeve protectors, smock, etc.).

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:

Physical state: Powder

Color: white

Odor: no distinct odor

9.2 Important health, safety and environmental information

pH (20 °C):

Melting point/range (°C):

NA

Boiling point/range (°C):

NA

Flash point (°C): 200°C (closed cup)

Ignition temperature (°C):

Minimum ignition energy:

Minimum explosible concentration (LEL):

Vapour pressure (°C):

NA

100

NA

NA

NA

NA

Vapour pressure (°C):

Density (g/cm3):

Bulk density (kg/m3):

Water solubility (20°C in g/l):

Viscosity, dynamic (mPa s):

NA

10. STABILITY AND REACTIVITY

- **10.1 Conditions to avoid:** Avoid wet/humid environment. Avoid dust formation.
- 10.2 Materials to avoid: Oxidizing materials, acids, strong bases, water, high humidity.
- **10.3 Hazardous decomposition products:** Carbon dioxide, carbon monoxide, NOx can be released at high temperatures or upon burning.

11. TOXICOLOGICAL INFORMATION

- 11.1 Toxicokinetics, metabolism and distribution: NA
- **11.2 General remarks:** Carcinogenicity: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.



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12. Ecological information

12.1 Ecotoxicity: The aquatic toxicity of the product is unknown. No data are available for the components of this product.

12.2 Mobility: No information available for product.

12.3 Persistence and degradability: No information available for product.

12.4 Results of PBT assessment: No information available for product

12.5 Other adverse effects: No information available for product

13. DISPOSAL CONSIDERATIONS

Do not let product enter drains. Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. Dispose of as special waste in compliance with local and national regulations.

European Waste Catalogue 08 02 01

14. TRANSPORT INFORMATION

14.1 Land transport (ADR/RID/GGVSE): Not Regulated

Official transport designation:

Class:

Classification Code:

UN-No.:

Packing group:

Hazard label:

Tunnel restriction code:

Special provisions:

14.2 Sea transport (IMDG-Code/GGVSee): Not Regulated

Proper Shipping Name:

Class:

UN-No.:

Packing group:

EmS:

Marine Pollutant:

Special provisions:

14.3 Air transport (ICAO-IATA/DGR): Not Regulated

Proper Shipping Name:

Class:

UN-No.:

Packing group:

Special provisions:

14.4 US DOT: Not Regulated

Proper Shipping Name:

Class: UN-No.:

Packing group:

Special provisions:



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15. REGULATORY INFORMATION

15.1 EU regulations

EINEC/ELINCS/NLP: All materials are listed

REACH Annex XVII: None listed

15.2. US FEDERAL

TSCA: All materials are listed on the TSCA Inventory or are not subject to TSCA requirements: California Proposition 65: This product does not contain chemicals which are known to the state of California to cause cancer, birth, or any other reproductive defects.

15.3. Australian regulations

SUSDP, Industrial Chemicals Act 1989:

Australian Inventory of Chemical Substances, AICS: Listed

15.4 Japanese regulations

Chemical Risk Information platform (CHRIP): Listed

Industrial Health and Safety Law not applicable Hazardous material not applicable Organic solvent poison prevention rule not applicable Ordinance on prevention of hazard due to not applicable

specified chemical substances

not applicable Lead Poisoning Prevention Rule Poison and Deleterious Substance Control law not applicable No listed components

PRTR and Promotion of Chemical Management law

(PRTR Law)

Fire Services Act not applicable not applicable **Explosives Law** High pressure gas safety law not applicable **Export Trade Control Order** not applicable

Waste Disposal and Public Cleaning Law applicable. Before disposal, consult an approved waste

disposal operative to ensure regulatory compliance.

16. OTHER INFORMATION

SDS Creation Date: January 27, 2015

SDS Revision #:-04-A

SDS Revision Date:..... October 10, 2019

Reason for Revision: Update logo, sections 1, 2, 3, 6, 7, 8, 9, 14, 15.

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