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

1.1 Identification of the substance or preparation: DuraForm FR1200 / DuraForm ProX FR1200

1.2 Use of the substance / preparation: For use with SLS (selective laser sintering) systems

1.3 Company/undertaking identification:

3D Systems, Inc. 3D Systems Europe Ltd. 3D Systems / Australia
33 Three D Systems Circle Mark House, Mark Road 5 Lynch Street
Rock Hill, South Carolina U.S.A. Hemel Hempstead Hawthorn, VIC 3122
Phone: 803.326.3900 or Toll-free Phone: 800.793.3669 Phone: +44 144-2282600 Chemical Emergency:
Chemical Emergency: 800.424.9300 - Chemtrec 703.527.3887 - Chemtrec

2. HAZARDS IDENTIFICATION

2.1 Classification:


2.2 Label Elements

Regulation (EC) No, 1272/2008:
Hazard pictograms and signal word: None
Hazard statements: None

Precautionary statements:
P260: Do not breathe dust
P311: Call a Poison Center or doctor/physician
P501: Dispose of contents/container in accordance with local regulation

NFPA Ratings
0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Hazardous Materials Identification System (HMIS):
(Degree of hazard: 0 = low, 4 = extreme):
Health 0
Flammability 1
Physical Hazards 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization

Description: Polymer powder (CAS 25587-80-8) containing additives

3.2 Dangerous components:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>EC-No</th>
<th>%</th>
<th>Classification Regulation (EC) 1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, cpd. with 1,3,5-triazine-2,4,6-triamine</td>
<td>37640-57-6</td>
<td>253-575-7</td>
<td>1-10</td>
<td>STOT RE2, H373</td>
</tr>
</tbody>
</table>
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.

5.3 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.

5.4 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.

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 approved industrial vacuum cleaner for removal. Do not create a powder cloud by using a brush or compressed air.

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 accumulation of this material to reduce potential explosions hazard. Use non-sparking tools when opening or closing containers. Use spark-proof, bonded, and grounded conveying and processing equipment to prevent static charge build-up.
7.2 Conditions for safe storage, including any incompatibilities
Keep this material in a cool, dry, well-ventilated place. Avoid dust accumulation of this material.
Eliminate all sources of ignition. Avoid contact with water or moisture. Keep separate from incompatible materials.

Storage temperature: 10 - 30 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values:
Occupational exposure limits: The OES 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. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If ventilation cannot effectively keep vapor concentrations below established limits, appropriate certified respiratory protection must be provided (e.g. 3M 6000 with organic vapor cartridge A2 or half mask 3M 4251).

Instructional 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 as appropriate: Flame retardant antistatic protective clothing. Wear shoes with conductive soles.

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): NA
Melting point/range (°C): 184-192
Boiling point/range (°C): NA
Flash point (°C): NA
Ignition temperature (°C): NA
Minimum explosible concentration LEL): NA
Vapour pressure (°C): NA
Density (g/cm3): 1.0-1.3
Bulk density (kg/m³): NA
Water solubility (20°C in g/l): NA
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.

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.

12.5 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:

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 and are not subject to TSCA requirements
SARA 302 EHS List (40 CFR 355 Appendix A): None listed
SARA 313 (40 CFR 372.65): None listed
CERCLA (40 CFR 302.4): None listed

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
Hazardous material not applicable
Organic solvent poison prevention rule not applicable
Ordinance on prevention of hazard due to specified chemical substances not applicable
Lead Poisoning Prevention Rule not applicable
Poison and Deleterious Substance Control law not applicable
PRTR and Promotion of Chemical Management law (PRTR Law) no listed components
Fire Services Act not applicable
Explosives Law not applicable
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

16.1 Relevant Hazard Statements (number and full text) referred to in sections 2 and 3 (according to (EC) No. 1272/2008):

STOT RE2, H373 - Specific target organ toxicity, repeated exposure, category 2: Causes damage to organs through prolonged or repeated exposure
16.2 Further information:

SDS Creation Date: September 29, 2017
SDS Revision #: 00-A
SDS Revision Date: September 29, 2017
Reason for Revision:

www.3dsystems.com
800.793.3669 (Toll-free in the US GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)
803.326.3900 (Outside the US, GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)
+44 144-2282600 (Europe GMT+01:00; Mon – Fri, 08:00 a.m. - 17:00 p.m. MEZ)

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