This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AF Amorphous Fluoroplastic resin
Product Grade/Type : AF1600, AF2400, AF1600 X, AF2400 X
Product Use : Resin for moulding and/or extrusion, For industrial use only.
Restrictions on use : Do not use in medical applications involving permanent implantation in the human body., See Section 16
Manufacturer/Supplier : DuPont
1007 Market Street
Wilmington, DE 19898
United States of America
Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

Other hazards
No applicable data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.
SECTION 4. FIRST AID MEASURES

General advice: No applicable data available.
Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician if necessary.
Skin contact: Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Obtain medical treatment for thermal burn.
Eye contact: If in eyes, rinse with water for 15 minutes. Consult a physician.
Ingestion: Consult a physician if necessary.
Most important symptoms/effects, acute and delayed: No applicable data available.
Protection of first-aiders: No applicable data available.
Notes to physician: No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media: No applicable data available.
Specific hazards: Hazardous thermal decomposition products:
Hydrofluoric acid...%
Carbon monoxide
Hexafluoroacetone
potentially toxic fluorinated compounds
Difficult to ignite, and flame goes out when initiating source is removed.
Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit. Wear neoprene gloves during cleaning up work after a fire.

Further information: Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel): Use personal protective equipment.

Environmental precautions: No applicable data available.

Spill Cleanup: Sweep up to prevent slipping hazard.

Accidental Release Measures: For disposal considerations see section 13.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel): When opening containers, avoid breathing vapours that may be emanating. Do not breathe dust. Avoid contact with skin, eyes and clothing. Do not contaminate tobacco products. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. Do not breathe vapours or fumes that may be evolved during processing. Do not use a torch to clean this material from equipment without local exhaust ventilation and respirator. Wash hands and face before breaks and immediately after handling the product.

Handling (Physical Aspects): No applicable data available.

Dust explosion class: No applicable data available.

Storage: Keep tightly closed. Keep in a well-ventilated place.

Storage period: No applicable data available.

Storage temperature: No applicable data available.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment
Respiratory protection : Provide adequate ventilation. Use respiratory protective equipment when using this product at elevated temperatures (see section 8). Suitable respiratory equipment: Wear a positive-pressure supplied-air respirator.

Hand protection : Material: Impervious gloves

Eye protection : Safety glasses Tightly fitting safety goggles Molten form Face-shield

Skin and body protection : If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear. Regular cleaning of equipment, work area and clothing. Impervious clothing

Exposure Guidelines
Exposure Limit Values

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

Non-Constiuent(s)

Dust (inhalable and respirable fraction)
Permissible exposure limit: (OSHA) 5 mg/m3 8 hr. TWA Respirable fraction.
Permissible exposure limit: (OSHA) 15 mg/m3 8 hr. TWA Total dust.
TLV (ACGIH) 3 mg/m3 TWA Respirable particles.
TLV (ACGIH) 10 mg/m3 TWA Inhalable particles.

Hexafluoroacetone
AF Amorphous Fluoroplastic resin

Version 2.0

Revision Date 05/27/2015

Ref. 150000000911

TLV (ACGIH) 0.1 ppm TWA

AEL * (DUPONT) 0.1 ppm 8 & 12 hr. TWA, Skin Remarks Men and women not of childbearing capability.

AEL * (DUPONT) 0.005 ppm 8 & 12 hr. TWA, Skin Remarks Women of childbearing capability.

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : powder, pellets
Color : white
Odor : none
Odor threshold : No applicable data available.
pH : No applicable data available.
Melting point/range : No applicable data available.
Boiling point/boiling range : No applicable data available.
Flash point : does not flash
Evaporation rate : No applicable data available.
Flammability (solid, gas) : No applicable data available.
Upper explosion limit : No applicable data available.
Lower explosion limit : No applicable data available.
Vapour Pressure : No applicable data available.
SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : No applicable data available.
Conditions to avoid : Avoid heating for prolonged periods above the recommended upper processing limit.
Incompatible materials : Powdered metals Finely divided aluminium, magnesium, Strong oxidizing agents, Contact with incompatible materials can cause fire and explosion.
Hazardous decomposition products : Hydrogen fluoride, Carbon monoxide, Fluorinated compounds, Hexafluoroacetone

SECTION 11. TOXICOLOGICAL INFORMATION

AF Amorphous Fluoroplastic resin
Inhalation : The thermal decomposition vapours of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.
Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : No data is available on the product itself.
Additional ecological information : The product contains no substances classified as hazardous to the environment in concentrations which should be taken into account.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Where possible recycling is preferred to disposal or incineration. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA : On the inventory, or in compliance with the inventory

SARA 313 Regulated Chemical(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 : WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Hexafluoroacetone

SECTION 16. OTHER INFORMATION

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<th>NFPA</th>
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<tr>
<td>Health : 2</td>
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<tr>
<td>Flammability : 1</td>
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<tr>
<td>Reactivity/Physical hazard : 0</td>
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Restrictions for use : Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.
AF Amorphous Fluoroplastic resin
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Ref. 150000000911

The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company. For further information contact the local DuPont office or DuPont's nominated distributors.

Revision Date : 05/27/2015

Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE 19898, (800) 441-7515

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.