



The MSDS format adheres to the standards and regulatory requirements of China and may not meet regulatory requirements in other countries.

## Dongyue Material Safety Data Sheet

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Dongyue PTFE DF-32A  
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### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

#### Material Identification

"Dongyue" is a registered trademark of Shandong Dongyue Polymer Material Co., Ltd.

Corporate MSDS Number : DY00032A      CAS NO.:9002-84-0

#### Company Identification

##### MANUFACTURER/DISTRIBUTOR

Dongyue  
Tangshan Town, Huantai County  
Zibo City, Shandong Province  
China

##### PHONE NUMBERS

Product Information : 86-533-8220305  
Transport Emergency : 86-533-3142512  
Medical Emergency : 86-853-8510072

### COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

Material	%
Polytetrafluoroethylene	≥99.97
Water	≤0.03

### HAZARDS IDENTIFICATION

#### Potential Health Effects

Skin contact may cause skin irritation with discomfort or rash. The product washed with water was not a skin irritant or a skin sensitizer in human patch testing.

Eye contact with the product may cause eye irritation with discomfort, tearing, or blurring of vision.

Inhalation may cause irritation of the upper respiratory passages or lung irritation effects with cough, discomfort,



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(HAZARDS IDENTIFICATION - Continued)

difficulty breathing, shortness of breath, or pulmonary edema (body fluid in the lungs). Symptoms may be modest initially followed in hours by severe shortness of breath requiring prompt medical attention.

Ingestion may cause nonspecific discomfort, such as nausea, headache, or weakness, heartburn, vomiting, or diarrhea. Ingestion of Hexylene glycol may cause temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness.

#### Carcinogenicity Information

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

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#### FIRST AID MEASURES

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##### First Aid

##### INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

##### SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

##### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

##### INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

#### Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.



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### FIRE FIGHTING MEASURES

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#### Flammable Properties

Flash Point : Extinguishes flame  
Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, and throat irritation or toxic effects.

#### Extinguishing Media

Suitable for combustibles in the area.

#### Fire Fighting Instructions

Evacuate personnel to a safe area. Wear self-contained breathing apparatus.

Avoid breathing decomposition products.

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### ACCIDENTAL RELEASE MEASURES

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#### Safeguards (Personnel)

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

#### Initial Containment

Prevent material from entering sewers, waterways, or low areas.

#### Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

#### Accidental Release Measures

Place in container for disposal. Flush spill area with water.

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### HANDLING AND STORAGE

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#### Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator



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(HANDLING AND STORAGE - Continued)

are used.

#### Storage

Keep container tightly closed.  
Perishable if frozen. Keep away from open flames and heated surfaces above 200 degC (392 degF).

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#### EXPOSURE CONTROLS/PERSONAL PROTECTION

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##### Engineering Controls

Keep container tightly closed. Use only with adequate ventilation. Vent heated extruder or dryer fumes outside work area. Do not aerosolize. In spray applications, use airless type pressure spray equipment at less than 60 psi, and exhaust ducts, drip pans, or other design features to minimize worker exposure to mists and overspray.

##### Personal Protective Equipment

###### EYE/FACE PROTECTION

Wear coverall chemical splash goggles.

###### RESPIRATORS

Wear NIOSH approved respiratory protection as appropriate.

###### PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate, impervious gloves, apron, pants, and jacket.

##### Exposure Guidelines

###### Applicable Exposure Limits

Hexylene Glycol	
PEL (OSHA)	: None Established
TLV (ACGIH)	: 25 ppm, 121 mg/m <sup>3</sup> , Ceiling
AEL * (Dongyue)	: None Established

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



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(Applicable Exposure Limits - Continued)

Exposure Guideline Comments

No AEL has been established for this product. Other products with fluorinated material components have an AEL of 0.1 mg/m<sup>3</sup> to 1 mg/m<sup>3</sup> (8 hour TWA) for respirable size aerosol particles.

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PHYSICAL AND CHEMICAL PROPERTIES  
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Physical Data

Melting Point	:	327±5	°C
Tensile strength	:	≥ 26	Mpa
Elongation at Rupture	:	≥ 270	%
Volume Density	:	800±50	g/L
Average Grain	:	750-950	µm
Powder Flow(g/min)	:	≥ 700	

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STABILITY AND REACTIVITY  
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Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and lung irritation or toxic effects.

Polymerization

Polymerization will not occur.



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### TOXICOLOGICAL INFORMATION

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#### Animal Data

"Dongyue" Advance:

Oral ALD: >11,000 mg/kg in rats

Hexylene Glycol:

Dermal LD50: 7.88 g/kg in rabbits  
Inhalation 8 hour ALC: >18,000 ppm in rats

The product is a mild transient eye irritant and a slight skin irritant in animals. No animal test reports are available to define carcinogenic, mutagenic, developmental or reproductive hazards.

A product is moderately toxic by inhalation. A single inhalation exposure to this product produced slight weight loss, nasal and ocular discharge, labored breathing, and lethargy.

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### ECOLOGICAL INFORMATION

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#### # Ecotoxicological Information

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### DISPOSAL CONSIDERATIONS

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#### Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not burn.



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## Dongyue Material Safety Data Sheet

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### TRANSPORTATION INFORMATION

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#### Shipping Information

DOT/IMO/IATA

Proper Shipping Name : Not Regulated

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### REGULATORY INFORMATION

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According to U.S. federal Regulations

TSCA Inventory Status : Reported/Included.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute	:	No
Chronic	:	No
Fire	:	No
Reactivity	:	No
Pressure	:	No

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### OTHER INFORMATION

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Consulting to NFPA, NPCA-HMIS

#### NPCA-HMIS Rating

Health : 2

Flammability : 0

Reactivity : 1

Personal Protection rating to be supplied by user depending on use conditions.

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS	:	MSDS Coordinator
		Shandong Dongyue Polymer Material Co.,Ltd
Address	:	zibo city, shandong Province,China
Telephone	:	86-533-8222279

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS