

MEMBRANES H9 TO H14 SERIES

1. PRODUCT INFORMATION

Trade Name: H9 to H14 series
Product description: Polytetrafluoroethylene Membrane

Relevant identified uses of the substance or mixture and uses advised

Relevant identified uses: Filtration
Recommended use: Filtration applications, for industrial processing only

Manufacturer/Importer/Supplier/Distributor information

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2. HAZARD'S IDENTIFICATION

Potential Health Effects:
Physical hazards not classified
Health hazards Sensitization, skin Category 1
Carcinogenicity Category 1A
OSHA defined hazards Combustible dust



Label elements

Signal word Danger
Hazard statement May form combustible dust concentrations in air. May cause an allergic skin reaction.
May cause cancer by inhalation.

Appearance:

White glossy plastic film

Pathway:

Chemicals invade the body cause damage pathway such as inhalation, ingestion, skin contact.

Health Hazards:

This product is basically nontoxic, but with the increase of the heating temperature, the pyrolytic components of polytetrafluoroethylene, the content and the toxicity will increase. then inhalation of the thermal decomposition products can cause poisoning. The light intoxicated is manifested as fever and "cold sample" symptoms. The symptoms of respiratory irritation occur in weight poisoned people, such as chemical bronchitis, pneumonia, and even pulmonary edema and myocardial damage.

Environmental Hazards:

PTFE pyrolysis, in addition to poison gas, but also generates toxic fumes white.

Explosion Hazards:

Teflon thermal processing such as welding, cutting, sintering process, with the temperature difference in the number of different pyrolysis products; pyrolysis of polytetrafluoroethylene, except poison gas, there are white smoke generation.

3. INFORMATION/ COMPOSITION ON INGREDIENTS

Substances

Chemical name	CAS number	%
Polytetrafluoroethylene	9002-84-0	100

Mixtures

Not applicable

4. FIRST AID MEASURES INHALATION

Skin:

Remove contaminated clothing, the affected area should be flushed with plenty of water. Prompt medical attention is advised for burns.

Eye:

Flush eyes with large amounts of water for minutes. If irritation develops, or persists, seek medical attention.

Inhalation:

Remove to fresh air. Drink water to clear throat and blow nose to remove dust. If breathing is difficult, give oxygen; if breathing stops, do artificial respiration immediately and consider medical treatment.

Ingestion:

Spit and rise with water, if you can not spit it out, immediately seek medical attention.

Absorption

Not applicable

5. FIRE FIGHTING MEASURES

Hazard Characteristics:

The thermal decomposition or combustion may produce other toxic gases.

Hazardous combustion products:

In a fire or very high heat conditions may produce toxic gases, such as carbon oxide, carbon dioxide, hydrogen fluoride.

Extinguishing method:

- A. Evacuation
- B. Use water spray, dry powder, carbon dioxide, water or fire when a large amount of alcohol resistant foam for firefighting.

6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:

- A. Rapid alarm, evacuate the staff, isolation contaminated area, limit access.
- B. Cut off the power and fire before cleaning the explosive leaked material.
- C. Emergency personnel should take preventive measures, wear masks and working clothes.
- D. Precautions to ensure sufficient workplace ventilation. Prohibit any product or discharged to the sewer water or river.
- E. Elimination method if leakage occurs, with clean shovel collection in a dry, clean, covered container.

7. HANDLING AND STORAGE:

Handling procedures:

- A. Ensure good ventilation in the workplace during processing and manufacturing.
- B. Operators must go through specialized training, strict adherence to the rules.
- C. Operators must wear self-contained breathing apparatus if possible exposure to the high temperature pyrolysis gas.

Storage Procedures:

- A. Materials in the original package should be in a cool, dry and well ventilated place until to be used.
- B. Away from Sources of pollution and incompatible substances.

8. EXPOSURE CONTROL /PERSONAL PROTECTION

Maximum Allowable Concentration:

N/A

Monitoring Methods:

N/A

Engineering Controls:

Provide supplementary local ventilation to control airborne levels.

Respiratory Protection:

When respiratory protection is required for certain operations, use approval air- purifying respirator.

Eye Protection:

Use safety glasses if there is a potential for exposure to particles. Provide eye washer near workplace.

Skin Protection:

Clean body-covering clothing should be needed.

Protective Gloves:

Wear chemical-resist gloves

Other Protection:

No smoking in the workplace. Maintain good hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product Appearance:

White glossy plastic film

Odor:

Odorless

Physical State:

Solid

PH Value:

N/A

Vapor Pressure:

N/A

Vapor Density:

N/A

Melting Point:

327±5°C

Boiling Point:

Not determined

Tensile Strength:

≥25Mpa

Elongation At Break:

≥300%

Relative Density:

2.25

Solubility:

Insoluble in Water

Octanol/water partition coefficient:

N/A

Ignition temperature:

No spontaneous combustion

Viscosity:

N/A

10. STABILITY AND REACTIVITY

Stability

This is a stable material. The product is not reactive.

Conditions to Avoid

Avoid to contacting with flammable or combustible material.

Materials to Avoid

Strong oxidizer

Hazardous Polymerization

No data

Decomposition Products

Perfluoroisobutylene

11. TOXICOLOGICAL INFORMATIONS

Acute Toxicity

A. Polymer fume fever:

If short-term inhalation of high concentrations of PTFE pyrolysis products, it occurs the emergence of chills, fever, muscle aches, cough, chest physio flu, headache, nausea, vomiting and other symptoms. Generally the emergence subside within 24 hours.

B. Irritating: Eye contact may cause irritation, redness and swelling.

C. Sensitization: No information

D. Mutagenicity: No information

E. Teratogenicity: No information

F. Carcinogenicity: No information

12. ECOLOGICAL INFORMATION

Ecotoxicity: No adverse reactions.

Biodegradability: No degraded.

Non-biodegradability: No data.

Bioconcentration and bioaccumulation: Long-term accumulation.

Other adverse effects: No

13. DISPOSAL CONSIDERATION

Waste Property:

No.

Disposal Instructions:

Disposal of waste material according to Local, Federal, and Province Environmental Regulations.

Waste Notice:

Prior to treatment, must refer to prevailing government regulations.

14. TRANSPORT INFORMATION

International Code:

No data available.

Hazard Sign:

No data available

Transport Hazard Class (ES)

A. Road Transport (ADR)

The product is not classified a hazardous material for transport.

B. Rail Transport (RID)

The product is not classified a hazardous material for transport.

C. Inland Water Transport (DOT)

The product is not classified a hazardous material for transport.

D. Maritime Transport (IMDG)

The product is not classified a hazardous material for transport.

E. Air Transport (IATA)

The product is not classified a hazardous material for transport.

Packing Requirements:

Not limited.

Transport Notice:

Avoid moisture and heat, avoid to contacting with oxidizing agents and strong alkali contact.

15. REGULATORY INFORMATION

Domestic Chemical Safety Regulations

"Material Safety Data Sheet Preparation Specified Range" (GB/T 16483-2008)

"Chemical Dangerous Goods Safety Management Regulations"(February 17,1987. The State Council issued)

"Chemical Dangerous Goods Safety Management Regulations Implementing Rules" (the Labor [1992] No.677)

"Industrial Sites Safe Use of Chemical" (1996 Workers No.423)

"Dangerous Goods Classification and Code" (GB6944-1986)

"Transport & Packing Category Principle of Dangerous Goods" (GB/T15098-1994)

"Transport of Dangerous Goods Management Regulations" (formerly the Ministry of Railway issued in 1995)

International Regulations

United States "Proposal for Transport of Dangerous Goods" UN RTDG

EU 1907/2006/EC (European Commission)

U.S. OSHA 1910.1200

Canadian WHMIS

American National Standards Institute ANSI

International Organization for Standardization ISO 11014-1/1994

16. OTHER INFORMATION

Abbreviations Used:

NPC

NPC laws

ZHB

Ministry of Environment Protection files

ACGIH

American Conference of Government Industrial Hygienists

CAS

Chemical Abstract Service

EINECS

European Inventory of Existing Commercial Chemical Substance

EPA

United States Environmental Protection Agency

IARC

International Agency for Research in Cancer

MSFU

Manufacture, Formulation, Supply and Use

NIOSH

National Institute of Occupational Safety and Health (US)

OSHA

United States Occupational Safety and Health Administration

WHMIS

Workplace Hazardous Material Information System (Canada)

The data is offered in good faith as typical values and not as a product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. No warranty, either expressed or limited is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.