Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • Polymeric Fiber – H Type
Product Code MSDS No.: ME-3001-03642

Product Description • Hollow polymerfiber.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Used in air separation processes

1.3 Details of the supplier of the safety data sheet

Manufacturer

• Air Liquide

2700 Post Oak Blvd. Houston, TX 77056 United States www.us.airliquide.com sds@airliquide.com

Telephone (Technical) • 713-896-2896 Telephone (Technical) • 800-819-1704

1.4 Emergency telephone number

Manufacturer • 800-424-9300 - CHEMTREC

Manufacturer • +1 703-527-3887 - Outside United States

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLPNot classifiedNot classified

2.2 Label Elements

CLP

Hazard statements • No label element(s) required

DSD/DPD

Risk phrases . No label element(s) required

2.3 Other Hazards

 According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous. DSD/DPD

 According to European Directive 1999/45/EC this preparation is not considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

Not classified

2.2 Label elements

OSHA HCS 2012

Hazard statements • No label element(s) required

2.3 Other hazards

OSHA HCS2012

 This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

Not classified

2.2 Label elements

WHMIS

No label element(s) required

2.3 Other hazards

WHMIS

 In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information





Section 3 - Composition/Information on Ingredients

3.1 Substances

 Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Polyaramide	NDA	N/A	NDA	EU DSD/DPD: No Data Available EU CLP: No Data Available OSHA HCS 2012: No Data Available	NDA

I	Nylon	NDA	N/A	EU DSD/DPD: No Data Available EU CLP: No Data Available	NDA
ı				OSHA HCS 2012: No Data Available	

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation • Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer

oxygen if breathing is difficult.

In case of contact with substance, immediately flush skin with running water for at

least 20 minutes.

In case of contact with substance, immediately flush eyes with running water for at

least 20 minutes.

Ingestion • Rinse mouth. Do not give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician • No specific actions or treatments recommended related to exposure to this material.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media . LARGE FIRE: Water spray, fog or regular foam.

SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing

Media

Skin

Eye

No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

• Some may burn, but none ignite readily.

Hazardous Combustion

Products

No data available.

5.3 Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).
 Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

• Do not touch or walk through spilled material.

Emergency Procedures

As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. Keep unauthorized personnel away.

6.2 Environmental precautions

Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up

Avoid generating dust.

Measures

SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading.

6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

 Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

• Ventilate enclosed areas. Keep container closed.

7.3 Specific end use(s)

• Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines

Currently there are no applicable exposure limits established for this material.

8.2 Exposure controls

Engineering Measures/Controls

Personal Protective Equipment

Respiratory

 Dilution ventilation. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

For limited exposure use an N95 dust mask. For prolonged exposure use an airpurifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face • Wear safety goggles.

Hands • Wear appropriate gloves.

Skin/Body • Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

• Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description						
Physical Form	Solid	Appearance/Description	White fiber with no odor.			
Color	White	Odor	Odorless			
Particulate Type	Dust	Odor Threshold	Data lacking			
General Properties		-				
Boiling Point	Data lacking	Melting Point	Data lacking			
Decomposition Temperature	< 300 C(< 572 F)	рН	Data lacking			
Specific Gravity/Relative Density	> 1 Water=1	Water Solubility	Insoluble			
Solvent Solubility	Data lacking	Viscosity	Data lacking			

Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking					
Volatility								
VaporPressure	Data lacking	Vapor Density	Data lacking					
Evaporation Rate	Data lacking							
Flammability		•		<u>.</u>				
Flash Point	Not relevant	UEL	Not relevant					
LEL	Not relevant	Autoignition	Not relevant					
Flammability (solid, gas)	Notflammable.							
Environmental								
Octanol/Water Partition coefficient	Data lacking							

9.2 Other Information

No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

• No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

• Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

• Hazardous polymerization not indicated.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

• No data available.

10.6 Hazardous decomposition products

• No data available.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP ◆ Classification criteria not met OSHA HCS 2012 ◆ Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Potential Health Effects Inhalation

Acute (Immediate)

 Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)

No data available

Skin

Acute (Immediate)

Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

No data available.

Eye

Acute (Immediate)

 Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed)

Ingestion

Acute (Immediate)

Chronic (Delayed)

No data available.

Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

No data available.

Section 12 - Ecological Information

12.1 Toxicity

Material data lacking.

12.2 Persistence and degradability

Material data lacking.

12.3 Bioaccumulative potential

Material data lacking.

12.4 Mobility in Soil

Material data lacking.

12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

. No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • None

State Right To Know						
Component	CAS	MA	NJ	PA		
Nylon	63428-83-1	No	No	No		

Inventory							
Component	CAS	Canada DSL	Canada NDSL	China	ı	EUEINECS	EU ELNICS
Nylon	63428-83-1	No	No	Yes		No	No
			Inventory (Cor	n't.)			
Component	Component CAS TSCA						
Nylon		63	428-83-1			No	

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Nylon

63428-83-1 Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Nylon	63428-83-1	Not Listed
Environment		
Canada - CEPA - Priority Substances List		
• Nylon	63428-83-1	Not Listed
China		
Environment		
China - Ozone Depleting Substances - First Schedule • Nylon	63428-83-1	Not Listed
China - Ozone Depleting Substances - Second Schedule • Nylon	63428-83-1	Not Listed
China - Ozone Depleting Substances - Third Schedule Nylon	63428-83-1	Not Listed
□ Other □		
China - Annex I & II - Controlled Chemicals Lists • Nylon	63428-83-1	Not Listed
China - Dangerous Goods List • Nylon	63428-83-1	Not Listed
China - Export Control List - Part I Chemicals • Nylon	63428-83-1	Not Listed
Europe		
Other EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification • Nylon	63428-83-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits • Nylon	63428-83-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling • Nylon	63428-83-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations • Nylon	63428-83-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases • Nylon	63428-83-1	Not Listed
Germany		
Environment		
Germany - TA Luft - Types and Classes • Nylon	63428-83-1	Not Listed
Germany - Water Classification (VwVwS) - Annex 1 • Nylon	63428-83-1	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		

• Nylon	63428-83-1	Not Listed
Germany - Water Classification (VwVwS) - Annex 3 • Nylon	63428-83-1	Not Listed
□ Other □		
Germany - Specifically Regulated Chemicals in TRGS • Nylon	63428-83-1	Not Listed
Portugal		
Other		
Portugal - Prohibited Substances • Nylon	63428-83-1	Not Listed
United Kingdom		
Environment		
United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air Nylon	63428-83-1	Not Listed
United Kingdom - Substances Contained in Dangerous Substances or Preparations • Nylon	63428-83-1	Not Listed
□ Other □		
United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review • Nylon	63428-83-1	Not Listed
United Kingdom - List of Dangerous Substances in Water • Nylon	63428-83-1	Not Listed
United States		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals • Nylon	63428-83-1	Not Listed
U.S OSHA - Specifically Regulated Chemicals • Nylon	63428-83-1	Not Listed
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants • Nylon	63428-83-1	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities • Nylon	63428-83-1	Not Listed
	00-120 00 1	THE LISTON
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities • Nylon	63428-83-1	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs • Nylon	63428-83-1	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs • Nylon	63428-83-1	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Nylon

63428-83-1 Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Nylon

63428-83-1 Not Listed

United States - California

Environment		
U.S California - Proposition 65 - Carcinogens List • Nylon	63428-83-1	Not Listed
U.S California - Proposition 65 - Developmental ToxicityNylon	63428-83-1	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) • Nylon	63428-83-1	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)Nylon	63428-83-1	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - FemaleNylon	63428-83-1	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - MaleNylon	63428-83-1	Not Listed

United States - Pennsylvania

Labor U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
• Nylon	63428-83-1	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances • Nylon	63428-83-1	Not Listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date
Preparation Date
Disclaimer/Statement of
Liability

- 03/February/2015
- 07/October/2014

To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

Key to abbreviations NDA = No data available

Polymeric Fiber – H Type