

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Material Name**

Myrifilm

**Chemical Family**

Ester

**Substance Registration Number(s)**

The substance in this product is subject to REACH registration. However, this component is proprietary. The registration number may be shared with the competent authority.

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

**Identified uses**

Industrial, Professional, Consumer Cleaning; Laboratory use; Formulation stage. Further information: see exposure scenarios attached to this safety data sheet.

**Uses advised against**

None known.

### 1.3 Details of the supplier of the safety data sheet

Myriant Corporation  
3 Batterymarch Park, 3<sup>rd</sup> Floor  
Quincy, MA 02169  
Phone: +1-617-657-5200  
E-mail: productsafety@myriant.com

Exponent International Limited  
1 Pride Point Drive  
Pride Park  
Derby DE24 8BX, UK  
Phone: +44 (0) 1332 868005

### 1.4 Emergency telephone number

CHEMTREC North America: +1-800-424-9300  
CHEMTREC International: +1-703-527-3887

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

None needed according to classification criteria

### 2.2 Label elements

**Labeling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard symbols**

None needed according to classification criteria

**Signal word**

None needed according to classification criteria

**Hazard statements**

None needed according to classification criteria

**Precautionary statements**

**Prevention**

None needed according to classification criteria

**Response**

None needed according to classification criteria

**Storage**

None needed according to classification criteria

**Disposal**

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations

**2.3 Other hazards**

No additional information available.

**SECTION 3: Composition / information on ingredients**

CAS EC No Registration No	Component Name Synonyms	1272/2008 (CLP)	Percent
Trade Secret Trade Secret Trade Secret	Trade Secret	--	>= 99.5

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**Inhalation**

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

**Skin**

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse.

**Eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**Ingestion**

Get medical attention, if needed.

**4.2 Most Important Symptoms/Effects**

**Acute**

No information on significant adverse effects.

**Delayed**

No information on significant adverse effects.

**4.3 Indication of Immediate Medical Attention and Special Treatment**

Treat symptomatically and supportively.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Use carbon dioxide, regular dry chemical, regular foam or water.

**Unsuitable Extinguishing Media**

None known.

**5.2 Special hazards arising from the substance or mixture**

Negligible fire and explosion hazard in bulk form.

**Combustion**

Oxides of carbon, low molecular weight hydrocarbons

**5.3 Advice for firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Keep unnecessary people away, isolate hazard area and deny entry. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Keep unnecessary people away, isolate hazard area and deny entry. Collect spillage. Avoid release to the environment. Only personnel trained for the hazards of this material should perform clean up and disposal.

**6.2 Environmental precautions**

Collect spillage. Avoid release to the environment. In case of spillage, stop the flow of material and block any potential routes to water systems. Keep out of water supplies and sewers.

**6.3 Methods and Materials for Containment and Cleaning Up**

Keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with eyes, skin and clothing. Only personnel trained for the hazards of this material should perform clean up and disposal. Collect spilled material using mechanical equipment.

**6.4 Reference to other sections**

Safe handling: see section 7. Personal protection equipment (PPE): see section 8. Disposal: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8.

### 7.2 Conditions for safe storage, including any incompatibilities

None needed according to classification criteria

Store in a cool, dry place. Store in a well-ventilated area. Keep separated from incompatible substances. Keep container tightly closed. Empty containers may contain product residue. Store and handle in accordance with all current regulations and standards.

### Incompatible Materials

oxidizing materials

### 7.3 Specific end use(s)

Industrial, Professional, Consumer Cleaning; Laboratory use; Formulation stage

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Component Exposure Limits

EU, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Netherlands, Portugal, Spain, Sweden and United Kingdom have not developed exposure limits for any of this product's components.

#### Biological limit value

There are no biological limit values for any of this product's components.

#### Derived No Effect Levels (DNELs)

DNEL Worker - inhalative, long-term - systemic: 1 mg/m<sup>3</sup>; DNEL Worker - dermal, long-term - systemic: 0.56 mg/kg bw/day; DNEL Consumer - inhalative, long-term - systemic: 0.24 mg/m<sup>3</sup>; DNEL Consumer - dermal, long-term - systemic: 0.28 mg/kg bw/day; DNEL Consumer - oral, long-term - systemic: 0.56 mg/kg bw/day

#### Predicted No Effect Concentrations (PNECs)

PNEC aquatic, freshwater: 0.015 mg/L; PNEC aquatic, marine water: 0.0015 mg/L; PNEC aquatic, intermittent release: 0.22 mg/L; PNEC sediment, freshwater: 2033 mg/kg dry weight; PNEC sediment, marine water: 203.3 mg/kg dry weight; PNEC sewage treatment plant (STP): 1.76 mg/L; PNEC soil: 407 mg/kg dry weight; PNEC Secondary Poisoning: 56.7 mg/kg

### 8.2 Exposure Controls

#### Engineering controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

#### Eye/face protection

Wear splash resistant safety goggles.

#### Skin Protection

Wear appropriate work clothing.

#### Respiratory Protection

In case of inadequate ventilation wear respiratory protection. Consult with a health and safety professional for specific respirators appropriate for your use.

#### Glove Recommendations

Wear appropriate chemical resistant gloves.

<b>SECTION 9: Physical and chemical properties</b>
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## 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Colorless, viscous liquid	<b>Physical State</b>	liquid
<b>Odor</b>	slight odor	<b>Color</b>	colorless
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	<-40 °C	<b>Boiling Point</b>	331.22 °C
<b>Freezing point</b>	<-40 °C	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not applicable
<b>Autoignition</b>	270 °C (770 mmHg)	<b>Flash Point</b>	194 °C (760 mmHg)
<b>Lower Explosive Limit</b>	Non-explosive	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Non-explosive	<b>Vapor Pressure</b>	0.0127 Pa (25 °C)
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	0.934
<b>Water Solubility</b>	<0.000005 g/L (20.7-20.9 °C, pH 7)	<b>Partition coefficient: n-octanol/water</b>	34900000
<b>Viscosity</b>	13.29 mm <sup>2</sup> /s (19.9 °C)	<b>Solubility (Other)</b>	Not available
<b>Density</b>	0.9256 g/cm <sup>3</sup> at 20 °C	<b>Log KOW</b>	7.94 (30 °C)
<b>Physical Form</b>	slightly viscous liquid	<b>Molecular Formula</b>	Proprietary
<b>OSHA Flammability Class</b>	Not flammable		

## 9.2 Other information

No additional information available.

<b>SECTION 10: Stability and reactivity</b>
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### 10.1 Reactivity

No reactivity hazard is expected.

### 10.2 Chemical stability

Stable at normal temperatures and pressure.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

### 10.5 Incompatible materials

oxidizing materials

### 10.6 Hazardous decomposition products

Oxides of carbon, low molecular weight hydrocarbons

<b>SECTION 11: Toxicological information</b>
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## 11.1 Information on toxicological effects

### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Trade Secret (Trade Secret)

Oral LD50 Rat >2000 mg/kg bw

Dermal LD50 Rat >2000 mL/kg bw

**Irritation/Corrosivity Data**

Non-irritating to the eyes and/or skin.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

Reported to be non-sensitizing.

**Germ Cell Mutagenicity**

Not classified.

**Component Carcinogenicity**

None of this product's components are listed by IARC or DFG.

Not classified.

**Reproductive toxicity**

Not classified.

**Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No data available.

**Additional Data**

No additional information available.

**SECTION 12: Ecological information****12.1 Toxicity**

Avoid release to the environment.

**Component Analysis - Aquatic Toxicity**

Trade Secret	Trade Secret
Fish:	LC50 96 hr Oncorhynchus mykiss >100 mg/L [static]
Algae:	EC50 72 hr Pseudokirchnerella subcapitata >320 mg/L [static]

**12.2 Persistence and degradability**

Readily biodegradable.

**12.3 Bioaccumulative potential**

This material is expected to bioaccumulate according the PBT/vPvB assessment: low potential to bioaccumulate.

**12.4 Mobility in soil**

No information available for the product.

**12.5 Results of PBT and vPvB assessment**

Log KOW 7.54: This material is expected to bioaccumulate according the PBT/vPvB assessment: low potential to bioaccumulate. This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. According to authority's assessment NOT PBT/vPvB: This material is believed not to persist in the environment, This material is believed to be non-toxic to aquatic life.

**EU - Interim Strategy for Management of PBT and vPvB Substances**

No components of this material are listed.

**12.6 Other adverse effects**

No additional information available.

**SECTION 13: Disposal considerations**
**13.1 Waste treatment methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**SECTION 14: Transport information**
**Component Marine Pollutants (IMDG)**

Not regulated as dangerous goods.

		ADR	RID	ICAO	IATA	ADN	IMDG
14.1	UN Number	Not regulated for transport	Not regulated for transport	Not regulated for transport	Not regulated for transport	Not regulated for transport	Not regulated for transport
14.2	UN Proper Shipping Name	--	--	--	--	--	--
14.3	Transport Hazard Class(es)	--	--	--	--	--	--
14.4	Packing Group	--	--	--	--	--	--
14.5	Environmental Hazards	--	--	--	--	--	--
14.6	Special Precautions For User	--	--	--	--	--	--
14.7	Transport in Bulk According to Annex II or MARPOL 73/78 and the IBC Code	--	--	--	--	--	--
14.8	Additional information	--	--	--	--	--	--

**International Bulk Chemical Code**

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

**SECTION 15: Regulatory information**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorization**

No components of this material are listed.

**EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances Subject to Authorization**

No components of this material are listed.

**EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles**

No components of this material are listed.

**EU - Biocides (1451/2007) - Existing Active Substance**

No components of this material are listed.

**Germany Regulations**
**Germany Water Classification**

No components of this material are listed.

**Denmark Regulations**

No components of this material are listed.

**Component Analysis - Inventory**

Trade Secret (Trade Secret)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes

**SECTION 16: Other information**
**16.1 Indication of changes**

Supersedes SDS written on July 11, 2013

**16.2 Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

**16.3 Key literature references and sources for data**

Available upon request.

**16.4 Methods Used for Classification of Mixture According to Regulation (EC) No 1272/2008**

Available upon request.

**16.5 Relevant R-, H- and EUH-phrases (Number and full text)**

None needed according to classification criteria

**16.6 Training advice**

Read the Safety Data Sheet before handling product.

**16.7 Further Information**



## Safety Data Sheet

**Product identifier: Myrifilm**

**SDS ID: M-006/EU**

**Disclaimer:**

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.